THE

ART of *DESIGNING* and *WORKING*

THE

ORNAMENTAL PARTS of *BUILDINGS.*

Proportioned by ALIQUOT PARTS.

B. LANGLEY.

THE BOOK OF THE BOSTON ARCHITECTURAL CLUB, NINETEEN HUNDRED AND TWENTY-TWO

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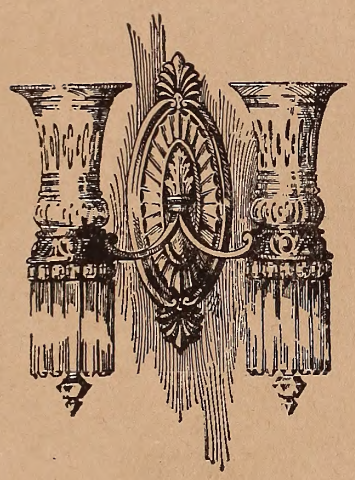

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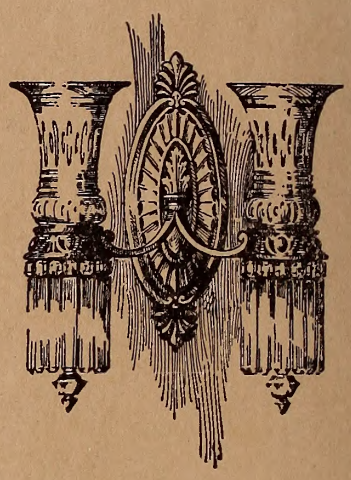

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BOSTON ARCHITECTURAL CLUB YEAR BOOK

FOR

1922

PUBLISHED BY THE
BOSTON ARCHITECTURAL CLUB
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SIENA

Braddock Lorings October 30 1799 Gimer 1807

The CITY and COUNTRY

BUILDER's and *WORKMAN*'s TREASURY of DESIGNS:

Or the ART of

DRAWING and WORKING

The Ornamental PARTS of

ARCHITECTURE.

Illustrated by upwards of *Four Hundred* grand Designs, neatly engraved on *One Hundred* and *Eighty-six* COPPER-PLATES, for

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Doors,	*Gulochi's,*	*Sun-Dials,*
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Niches,	*Types,*	*Stone Tables,*
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Chimney-Pieces,	*Fonts,*	*Iron Works.*
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Proportioned by ALIQUOT PARTS.

With an *APPENDIX* of *Fourteen* PLATES of *Trusses* for *Girders* and *Beams,* different Sorts of *Rafters,* and a Variety of *Roofs,* &c.

To which are prefix'd,

The Five Orders of Columns, according to ANDREA PALLADIO; whose Members are proportioned by ALIQUOT PARTS, in a more easy Manner than has yet been done.

The WHOLE interspersed

With sure RULES for working all the Varieties of Raking Members in *Pediments, Modillions,* &c. The like, for the immediate Use of WORKMEN, never published before, in any Language.

By *B. L.*

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INTRODUCTION.

THE great Pleaſure that Builders and Workmen of all Kinds have of late Years taken in the Study of Architecture; and the great Advantages that have accrued to thoſe, for whom they have been employed; by having their Works executed in a much neater and more magnificent Manner than was ever done in this Kingdom before; has been the real Motive that induced me to the compiling of this Work, for their further Improvement.

Beſides, as the Study of Architecture is really delightful in all its Proceſs; its Practice is evidently of the greateſt Importance to Artificers in general; and its Rules ſo eaſy, as to be acquired at leiſure Times, when the Buſineſs of Days is over, by Way of Diverſion: 'Tis a Matter of very great Surprize to me, how any Perſon dare preſume to diſcourage others from the Study thereof, and thereby render them very often leſs ſerviceable to the Publick than ſo many Brutes.

But to prevent this Infection from diffuſing its poiſonous Effluvia's any further; and in Conſideration that amongſt all Sorts of People, there are ſome, in whom Nature has implanted that noble Faculty of the Soul, called REASON, *whereby we judge of Things:* I have therefore, at a very grea Expence, compiled this Work for the common Good of all *Men of Reaſon*, whoſe Buſineſſes requir the Knowledge of this Art, and who deſire to become Proficients therein.

The firſt Work to be done in order thereto, is perfectly to underſtand the Five Orders of Columns, which here I have placed precedent to the Deſigns for that Purpoſe; and which I peremptorily admoniſh, be well underſtood, before any Proceeding be made to attempt the Art of Deſigning.

The Five Orders of Columns have their Members ſo eaſily adjuſted, that the Reader, after having once read their Explanations, need never read them a ſecond Time. Nor will their general Proportions eſcape his Memory, after having practiſed them about half a Dozen Times.

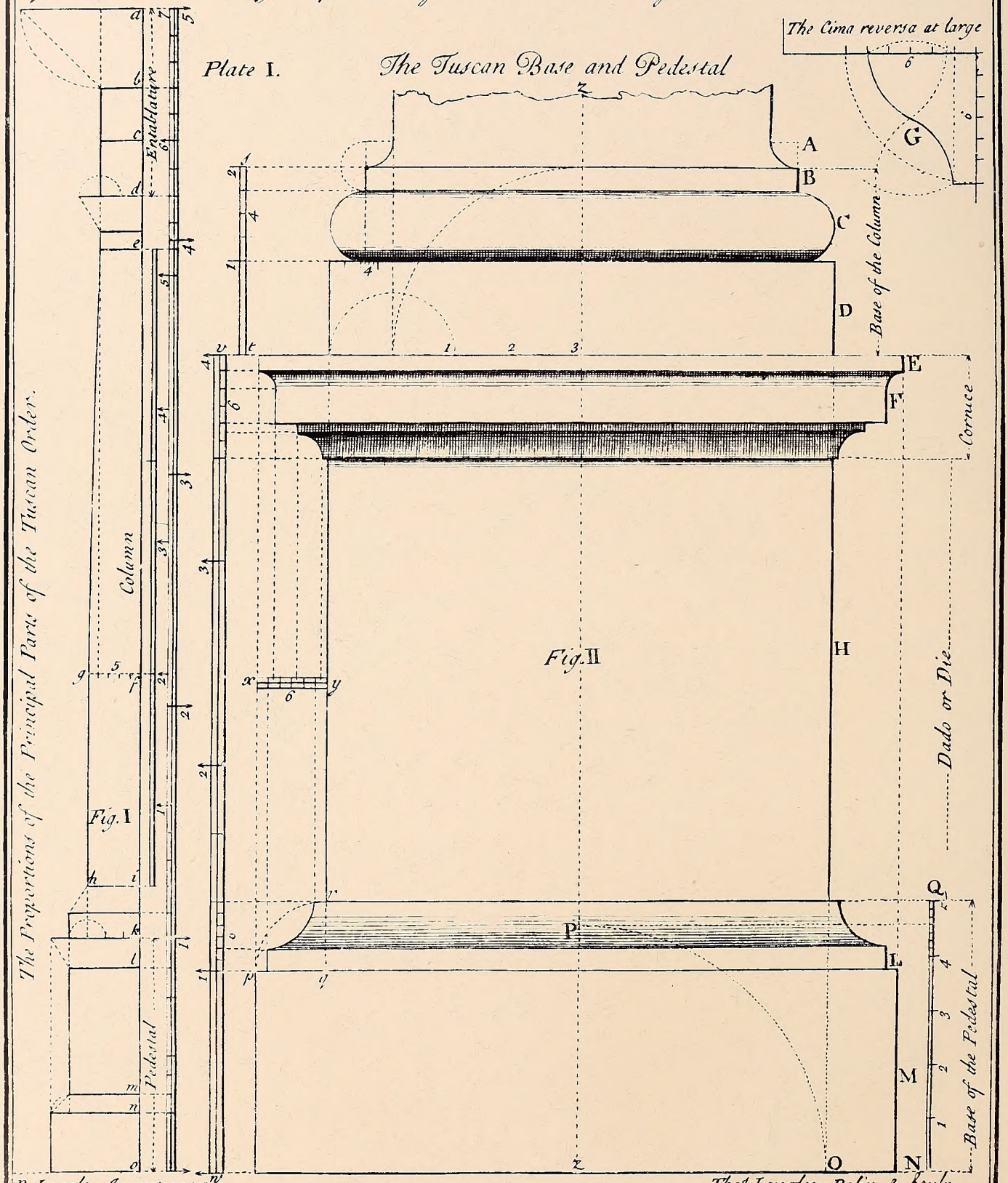
The Deſigns contained herein, and the Orders preceding them, are in general adjuſted by Aliquot Parts; ſo that when the Height of any Work to be made, is known, (which in all Caſes muſt firſt be given) and divided into ſome certain Number of equal Parts, as affixed to every Deſign; the Heights and Projections of its Members are thereby determined. And, that young Students may not be at a Loſs herein, I have, for their further Inſtruction ſhewn their particular Members, with their Meaſures at large; which the Deſigns of *Inigo Jones*, and all other Maſters to this Time, are defective in, and conſequently are of no more Uſe to Workmen, than ſo many Pictures to gaze at; not ſo many Rules, or Examples to work by, or after; unleſs to ſuch, who underſtand the Architecture thereof, as well as their Authors, who deſigned them.

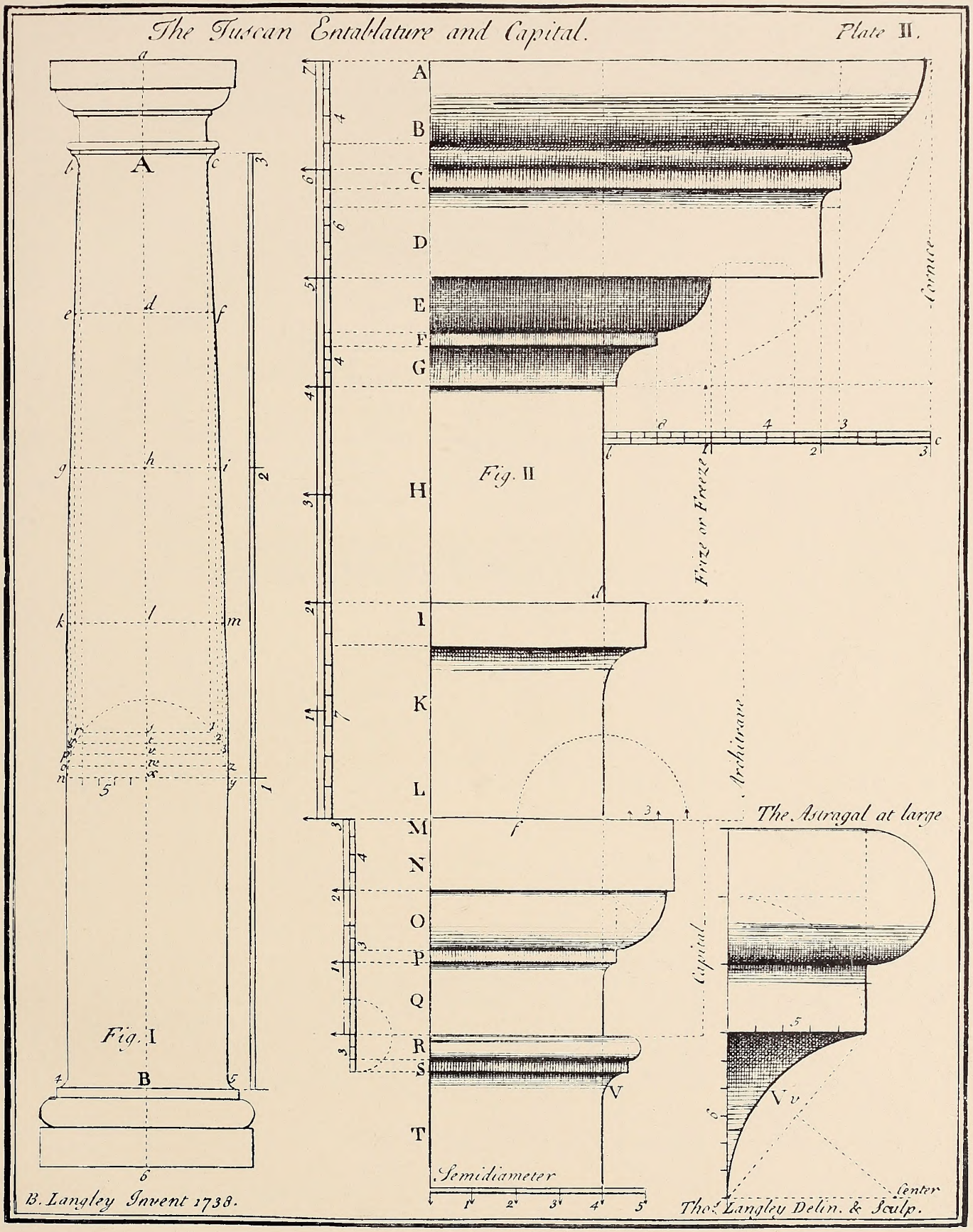
I ſhall now proceed to explain the Orders in the moſt familiar Manner; which will render the Underſtanding of all the following Deſigns conſpicuous to every Capacity.

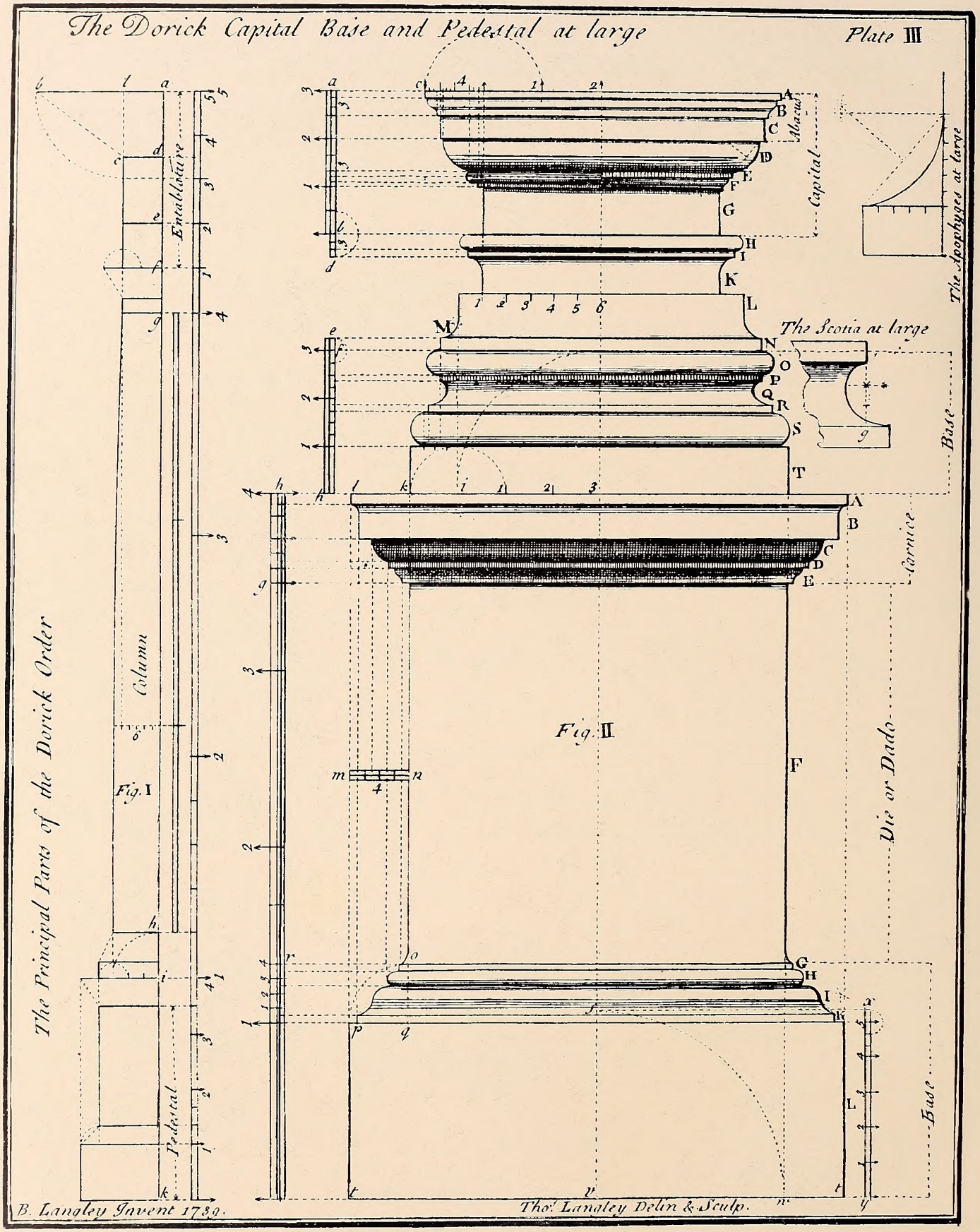
B. LANGLEY.

Introduction.

Before the young Student can proceed to the Art of making Designs of the Ornamental Parts of Buildings, He must understand, How to Proportion the five orders of Columns; and that this Work may not be dependant on any other for that Purpose, I shall therefore first Explain, the manner of Proportioning them at large by equal Parts in a more Concise, but full and easy Manner than has been yet done.




The Tuscan Entablature and Capital.
Plate II.
Fig. I
Fig. II
Cornice
Frize or Freeze
Architrave
Capital
The Astragal at large
Semidiameter
Center
B. Langley Invent 1738.
Thos. Langley Delin. & Sculp.


The Dorick Capital Base and Pedestal at large
Plate III
The Principal Parts of the Dorick Order
Entablature
Column
Fig. I
Pedestal
Abacus
Capital
The Apophyges at large
The Scotia at large
Base
Cornice
Fig. II
Die or Dado
Base
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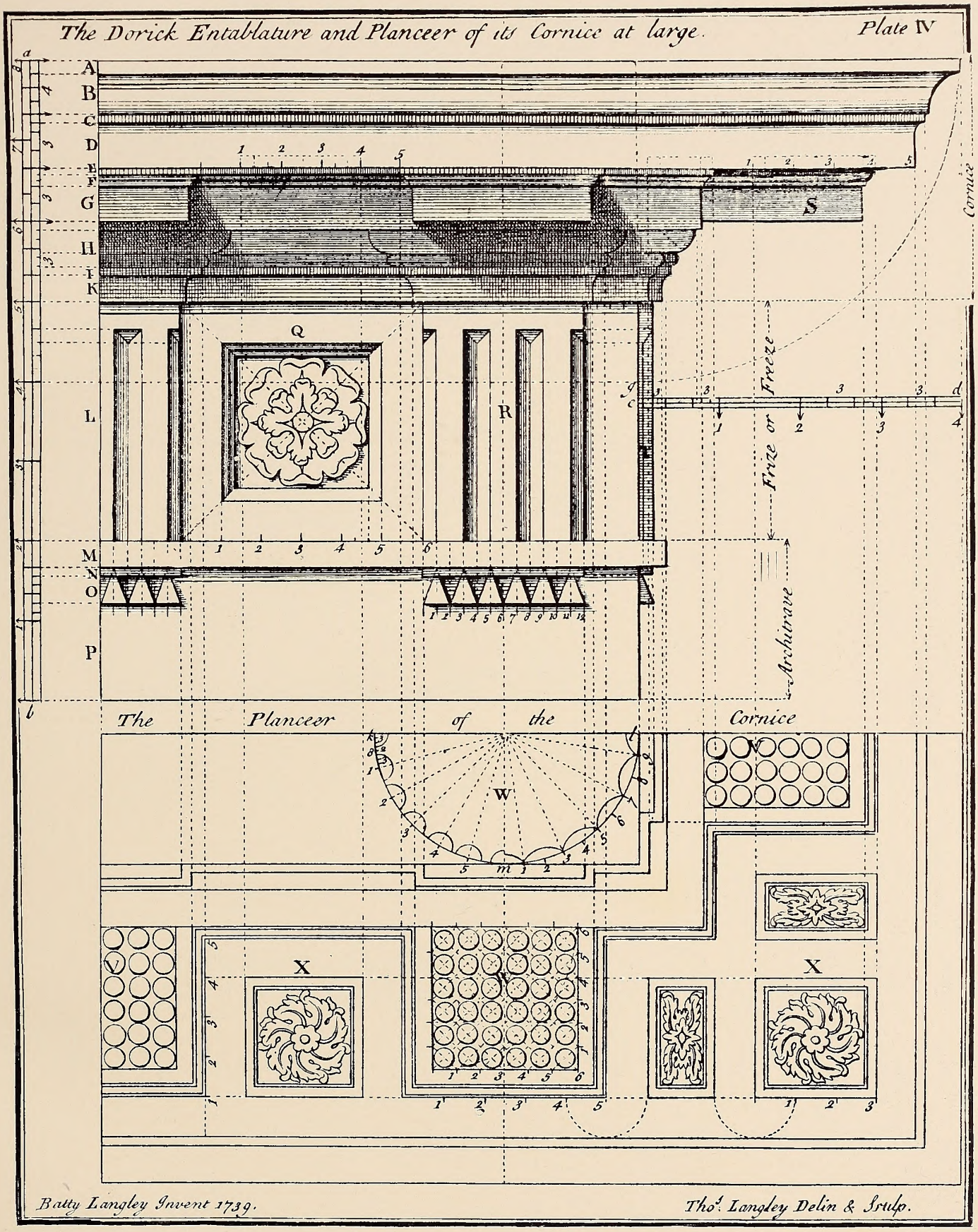
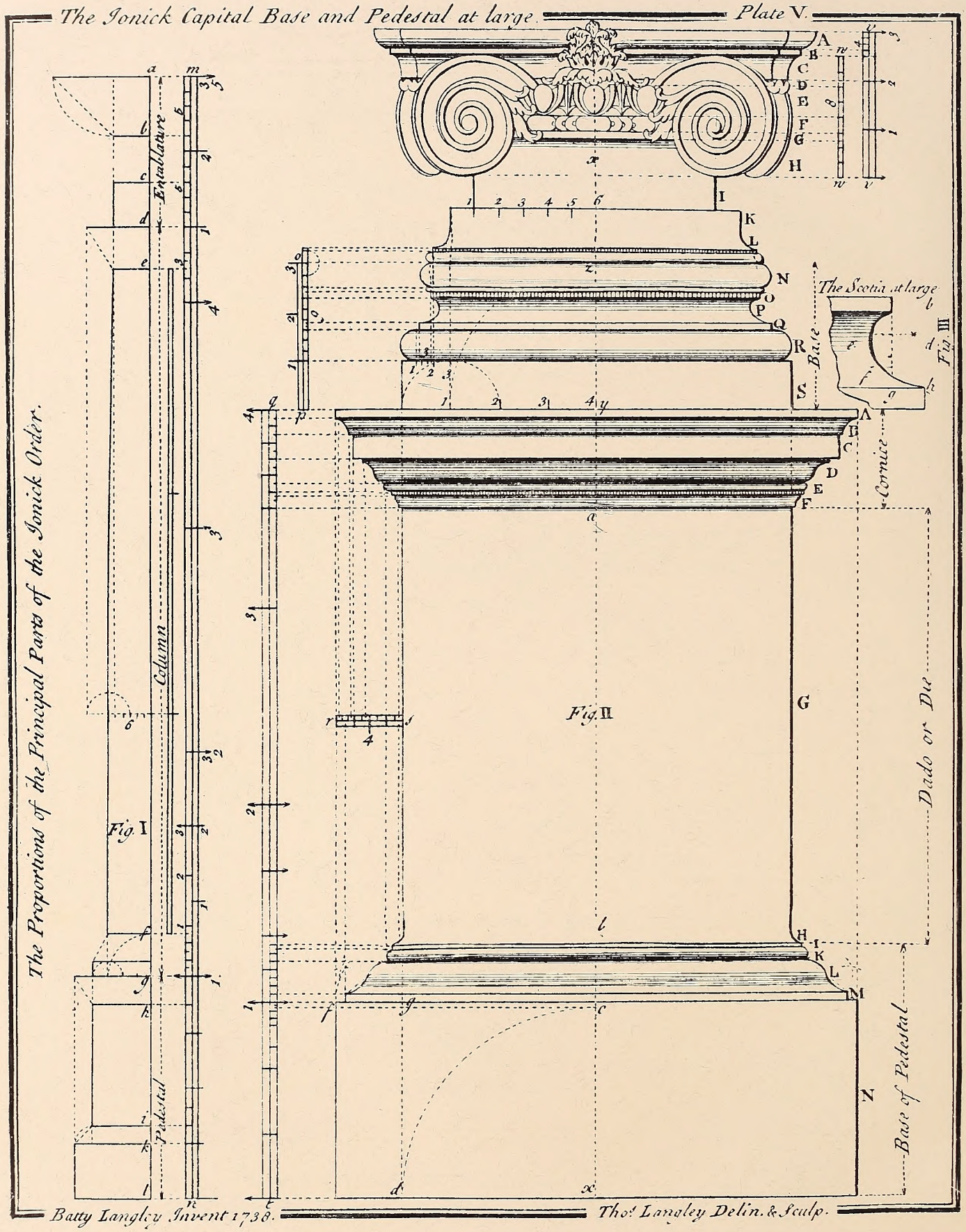

The Dorick Entablature and Planceer of its Cornice at large.
Plate IV
A
B
C
D
E
F
G
H
I
K
L
M
N
O
P
Q
R
S
Cornice
Freeze
Frize or
Architrave
The Planceer of the Cornice
W
X
X
Batty Langley Invent 1739.
Thos. Langley Delin & Sculp.

The Ionick Capital Base and Pedestal at large. Plate V.



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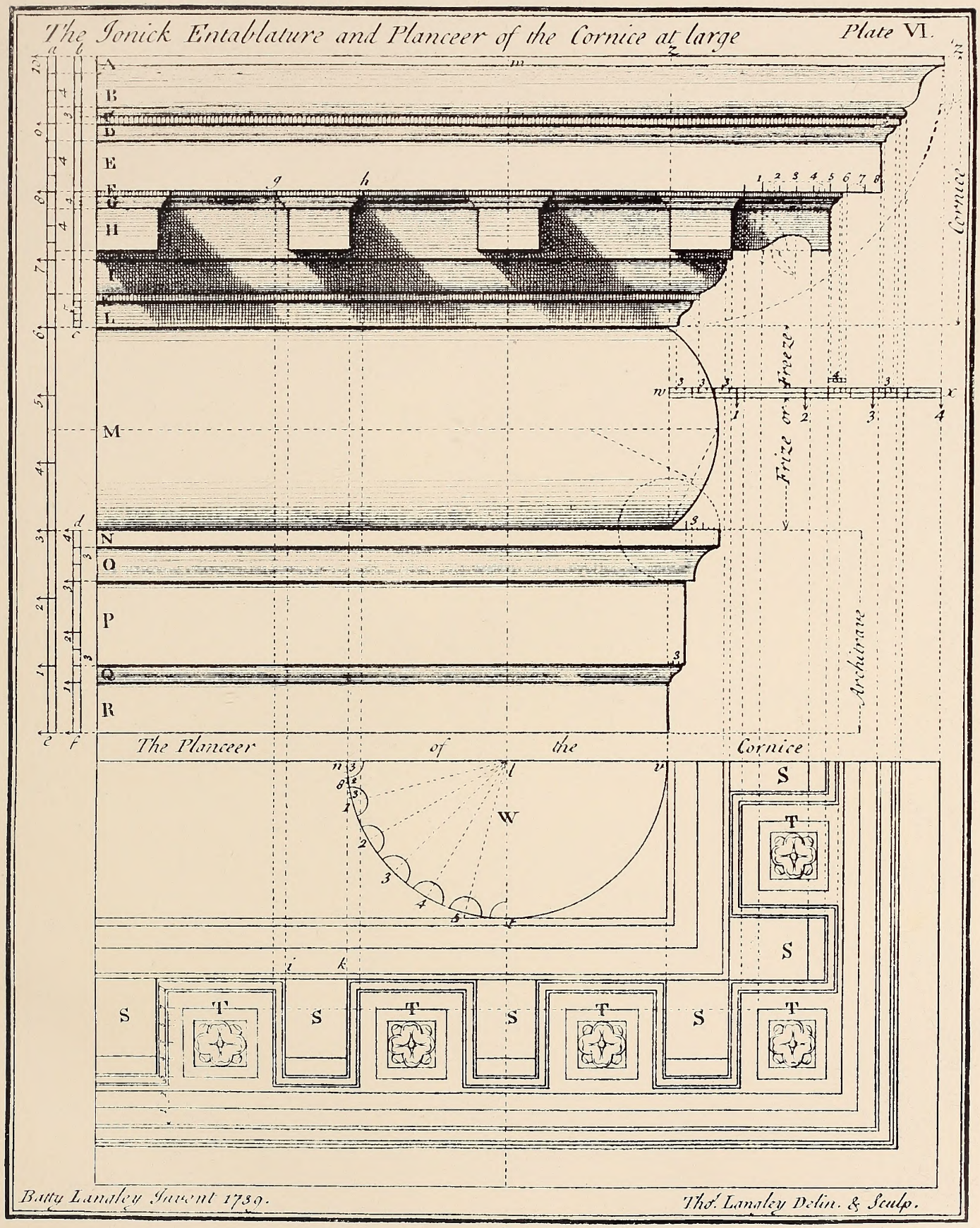
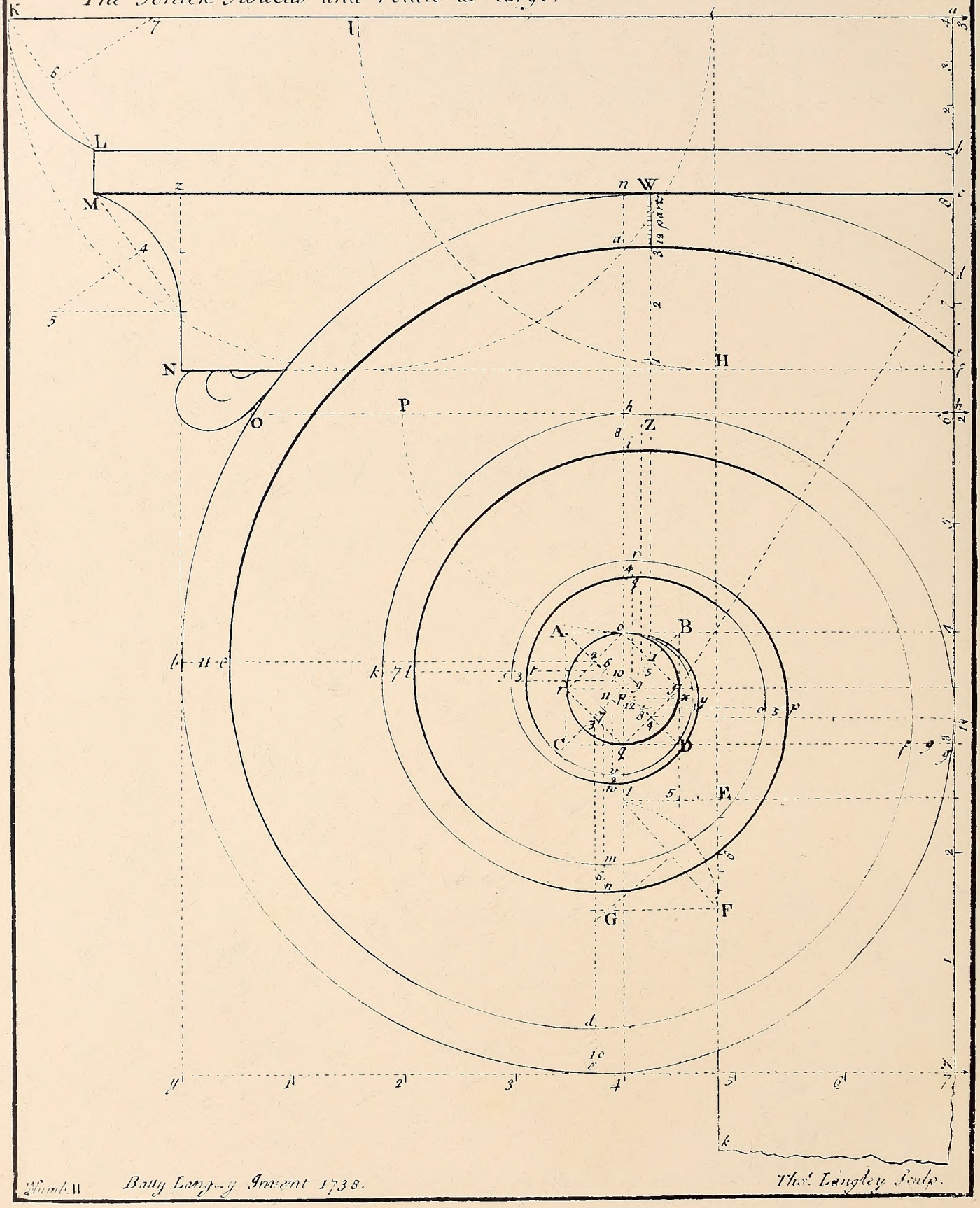

The Jonick Entablature and Planceer of the Cornice at large
Plate VI.
A
B
C
D
E
F
G
H
I
L
M
N
O
P
Q
R
Cornice
Frieze
Architrave
The Planceer of the Cornice
S
T
W
Batty Langley Invent 1739.
Thos. Langley Delin. & Sculp.

The Ionick Abacus and Volute at large.

Plate VII.



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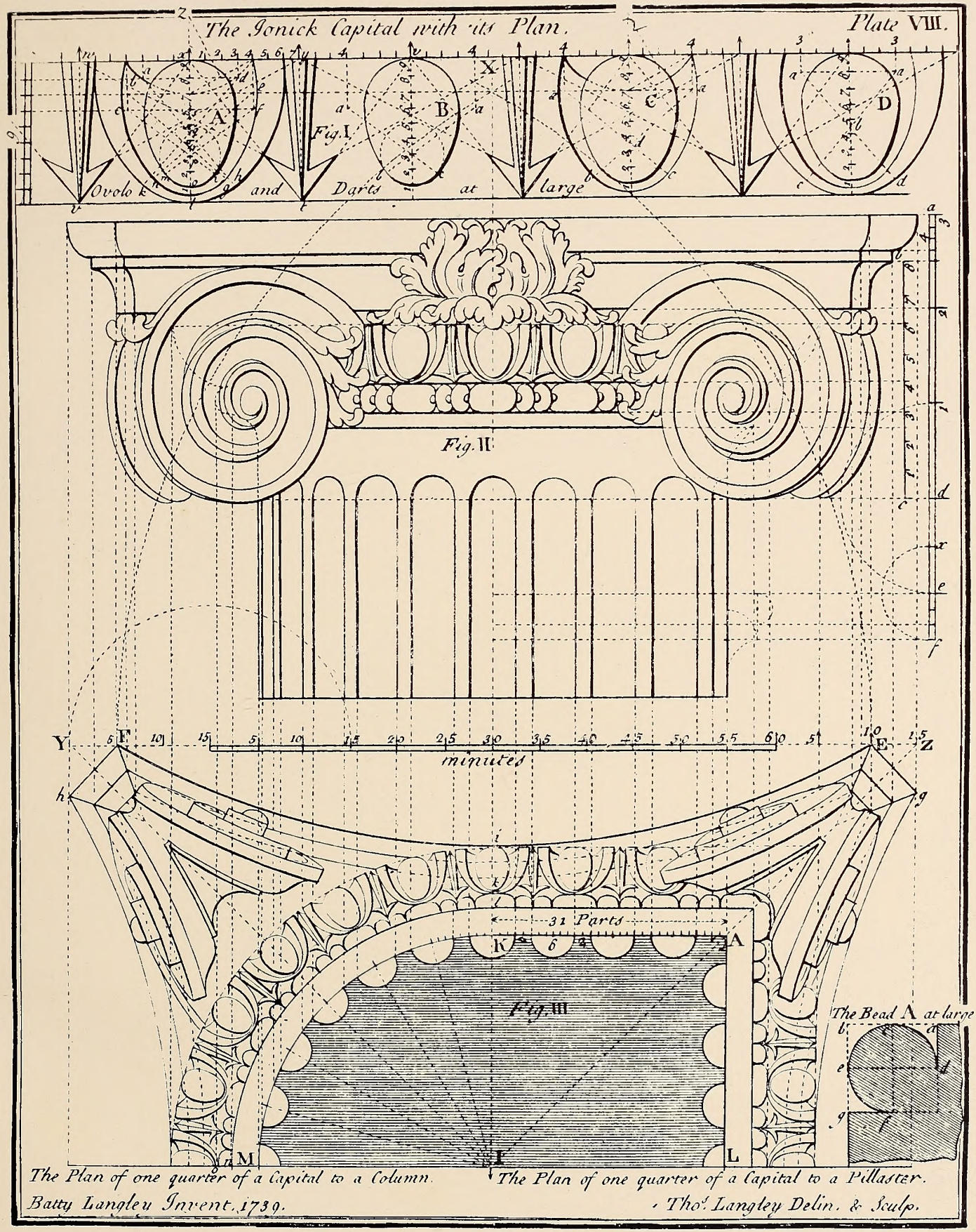
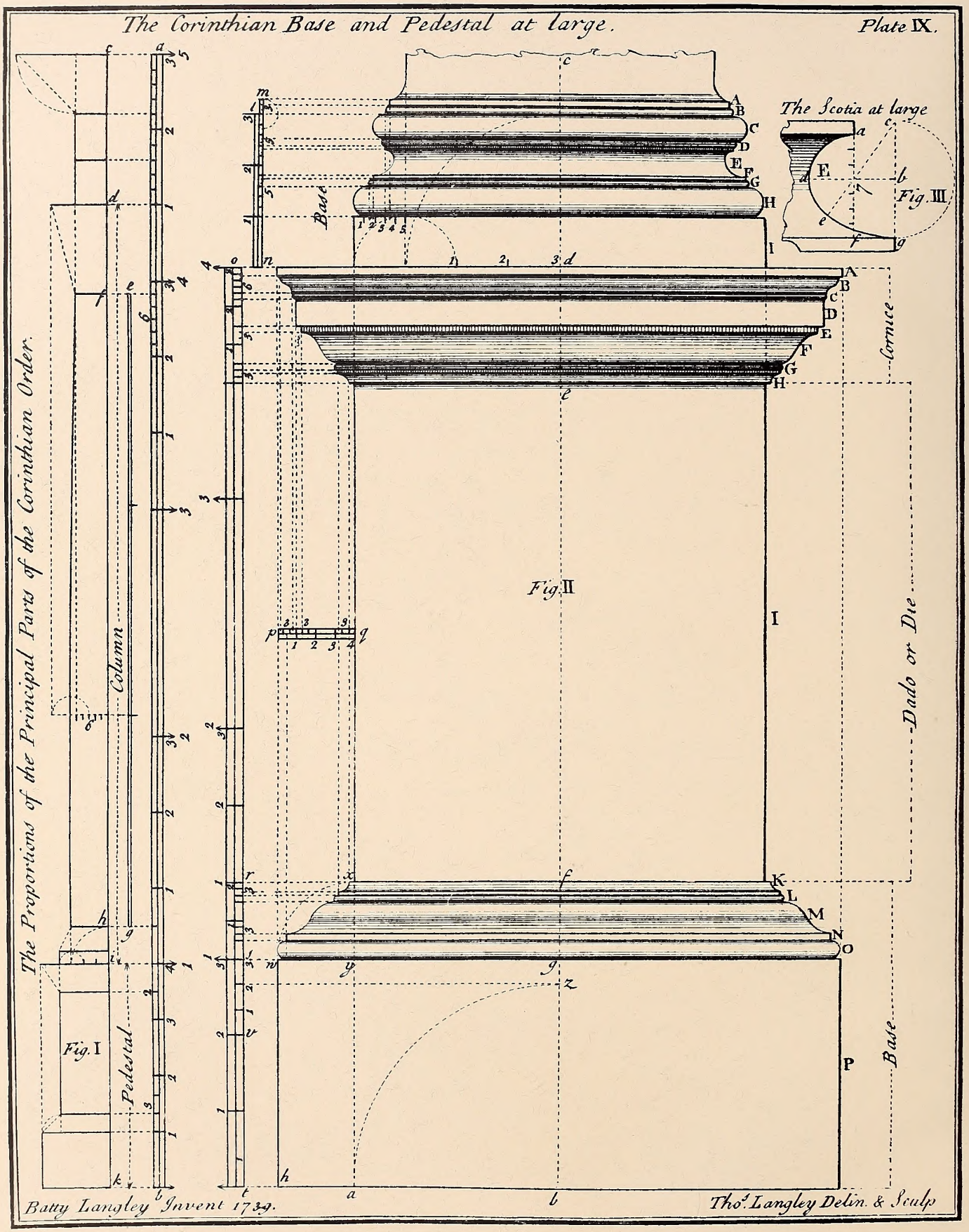
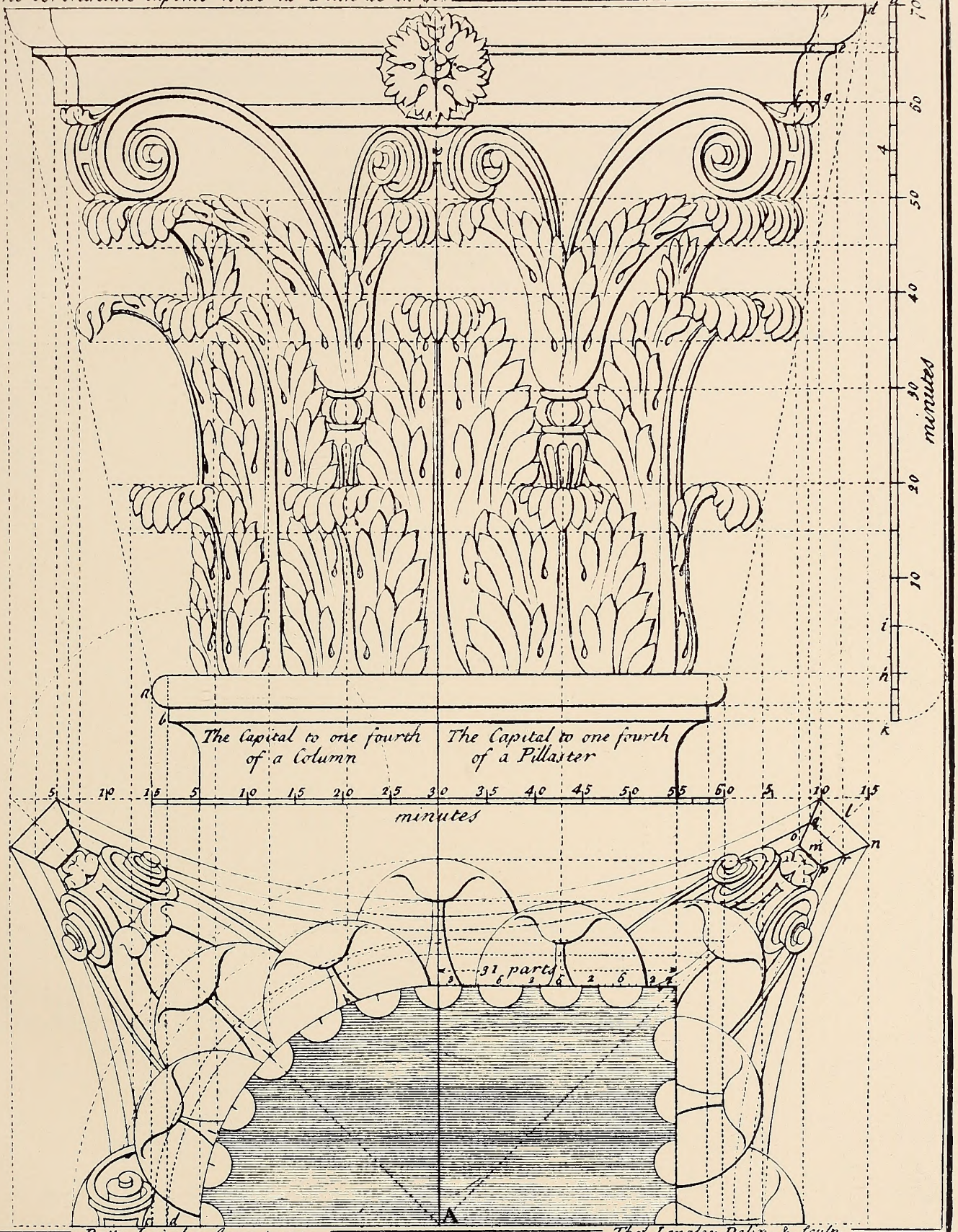
Thos. Langley Sculp.

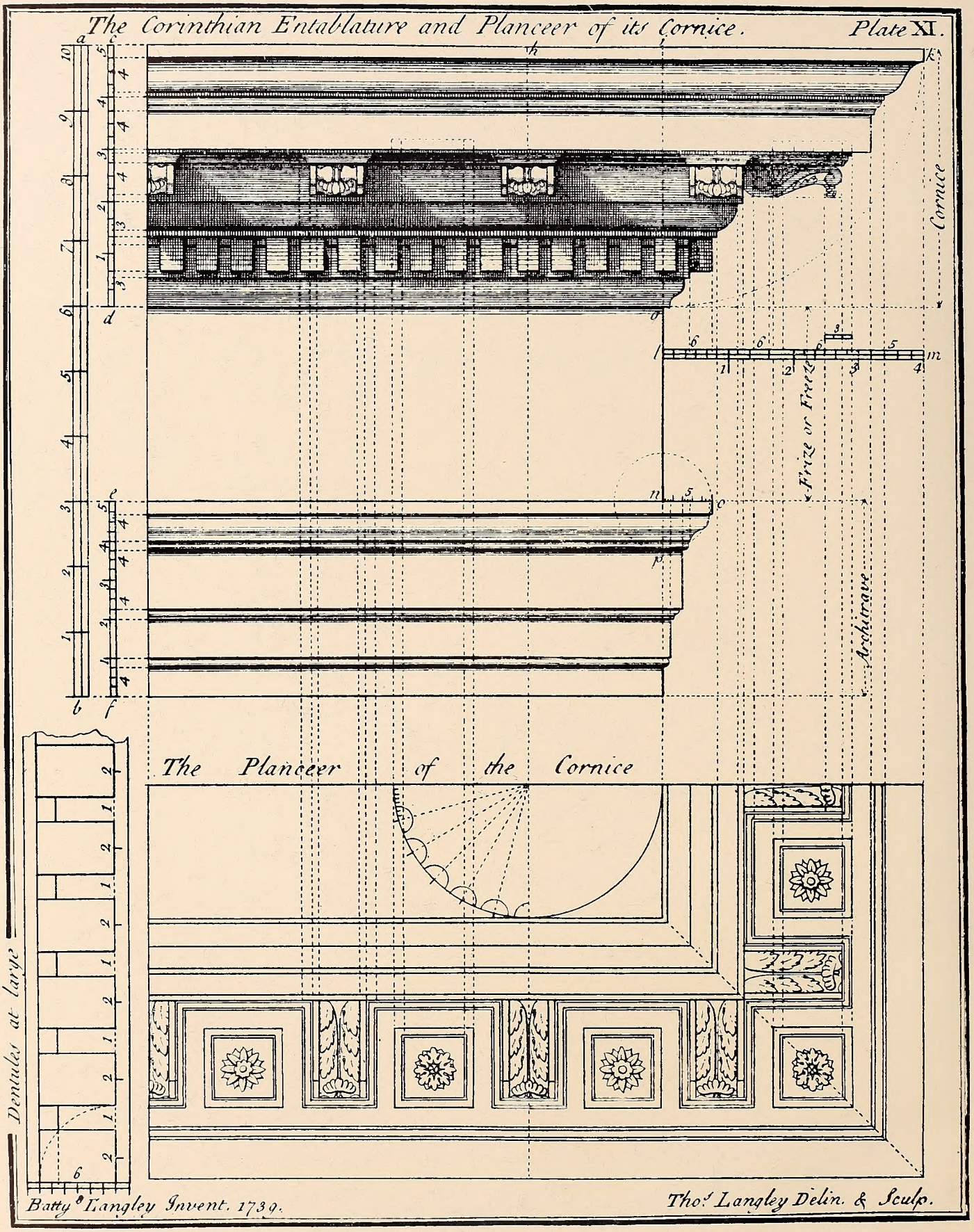

The Ionick Capital with its Plan.
Plate VIII.
Ovolo and Darts at large
Fig. I
Fig. II
Fig. III
31 Parts
minuted
The Bead A at large
The Plan of one quarter of a Capital to a Column.
The Plan of one quarter of a Capital to a Pillaster.
Batty Langley Invent. 1739.
Thos. Langley Delin. & Sculp.


The Corinthian Base and Pedestal at large.
Plate IX.
The Proportions of the Principal Parts of the Corinthian Order.
The Scotia at large
Fig. III
Base
Cornice
Fig. II
Dado or Die
Column
Fig. I
Pedestal
Base
Batty Langley Invent 1739.
Thos. Langley Delin. & Sculp.

The Corinthian Capital with its Plan at large. Plate X.

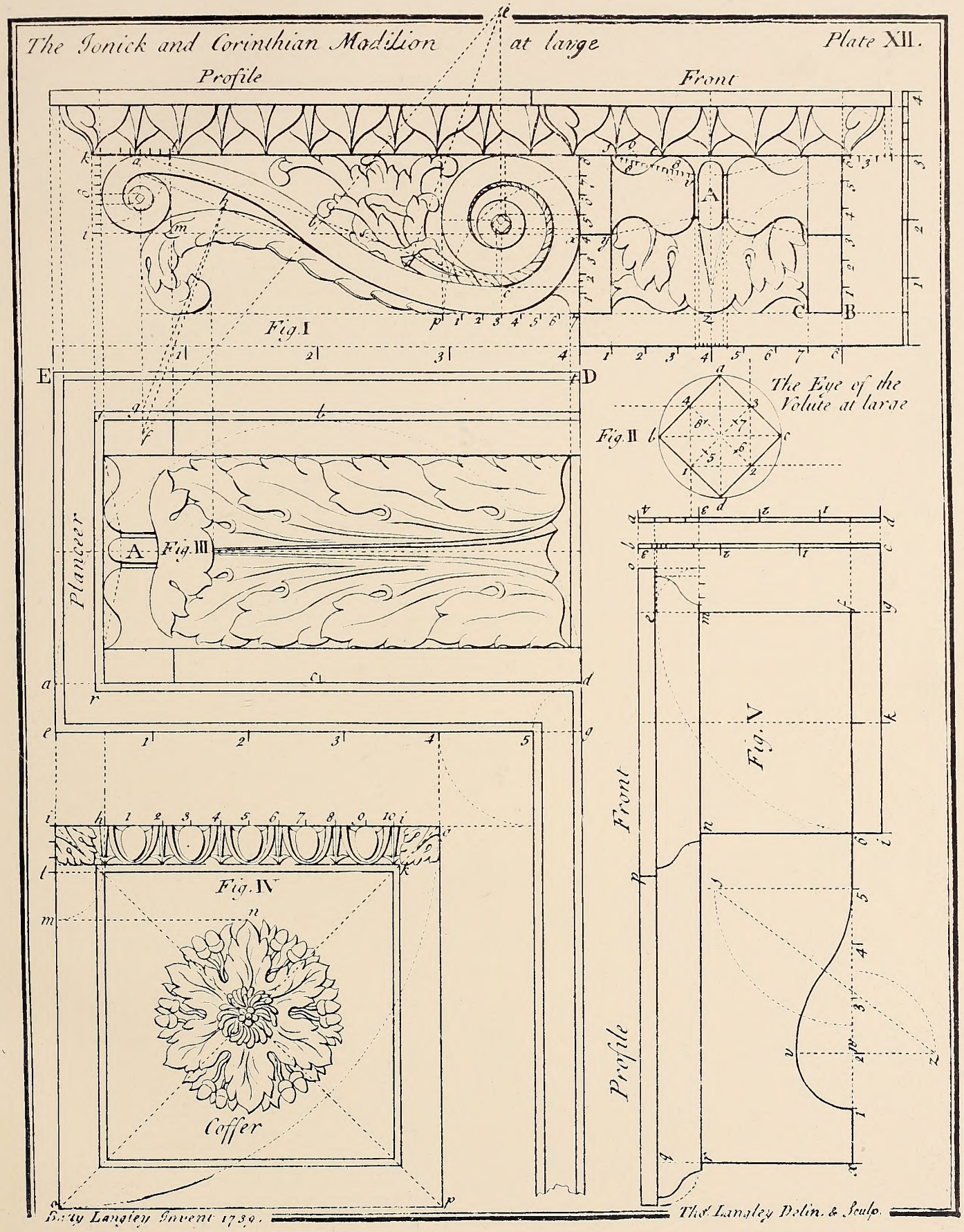


Batty Langley Invent 1739. Thos. Langley Delin. & Sculp.


The Corinthian Entablature and Planceer of its Cornice.
Plate XI.
Cornice
Frize or Frieze
Architrave
The Planceer of the Cornice
Denules at large
Batty Langley Invent. 1739.
Thos Langley Delin. & Sculp.

The Jonick and Corinthian Modilion at large

Plate XII.

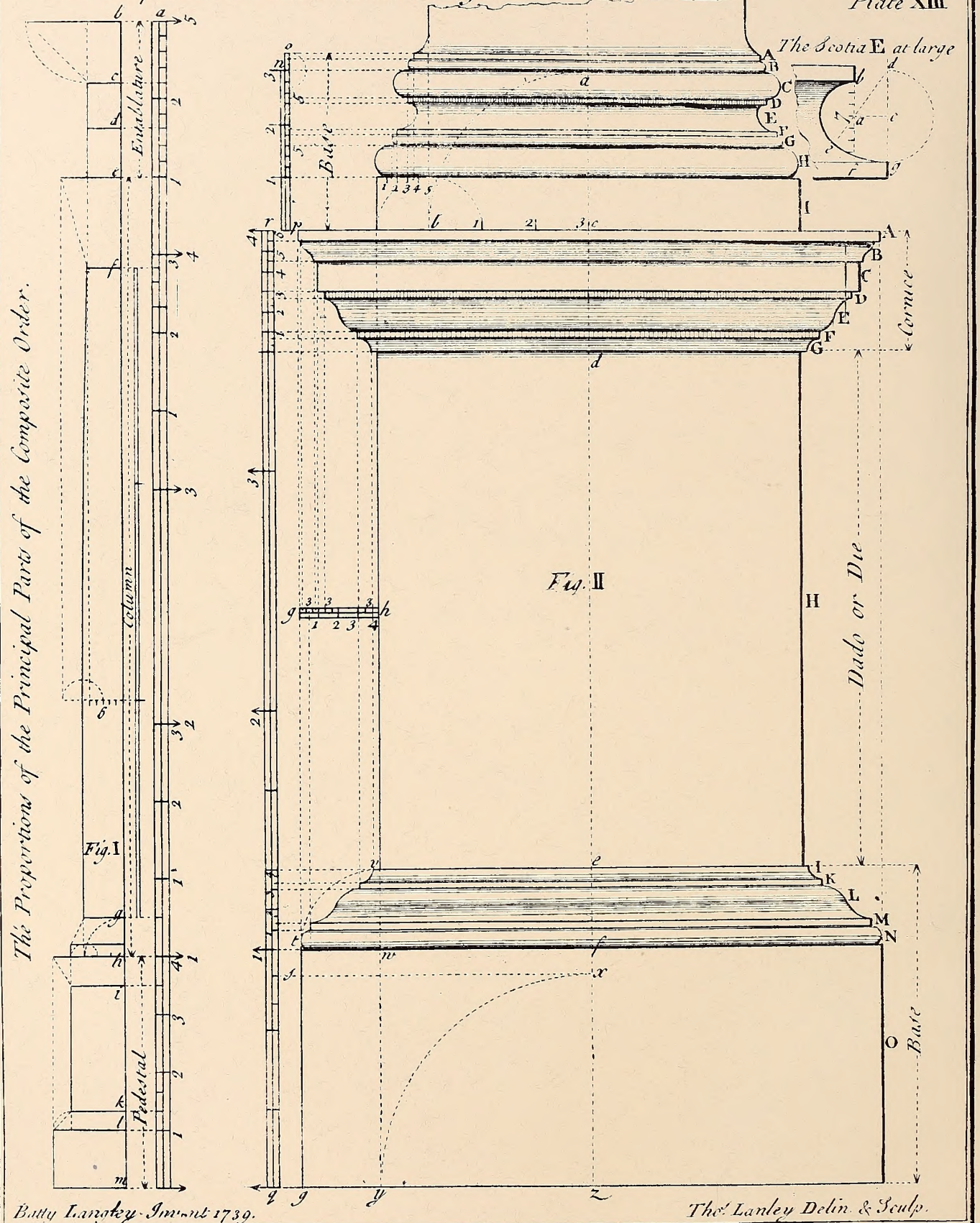


Batty Langley Invent 1739.

Thos. Langley Delin. & Sculp.

The Composite Base and Pedestal at large.

Plate XIII



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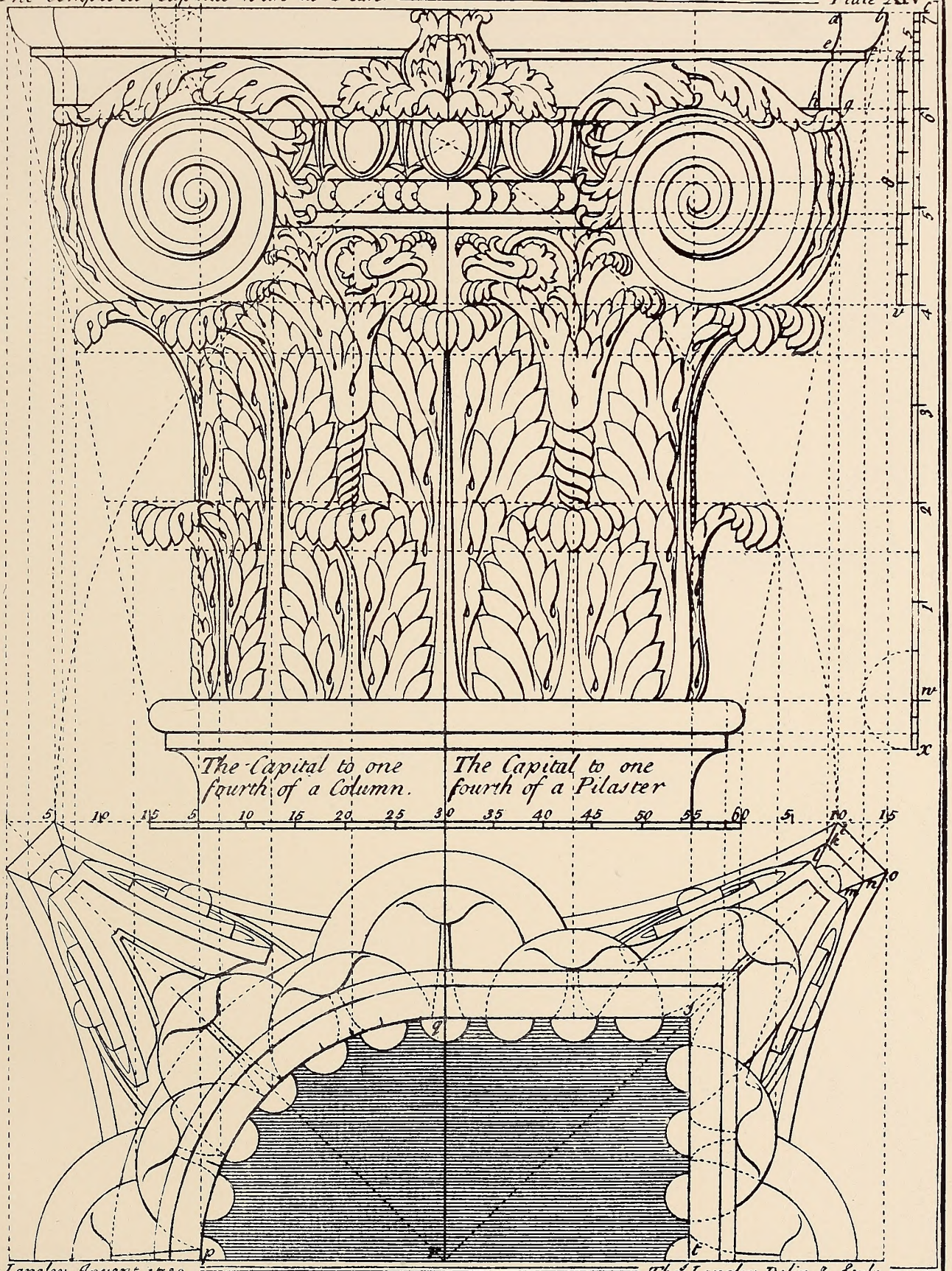

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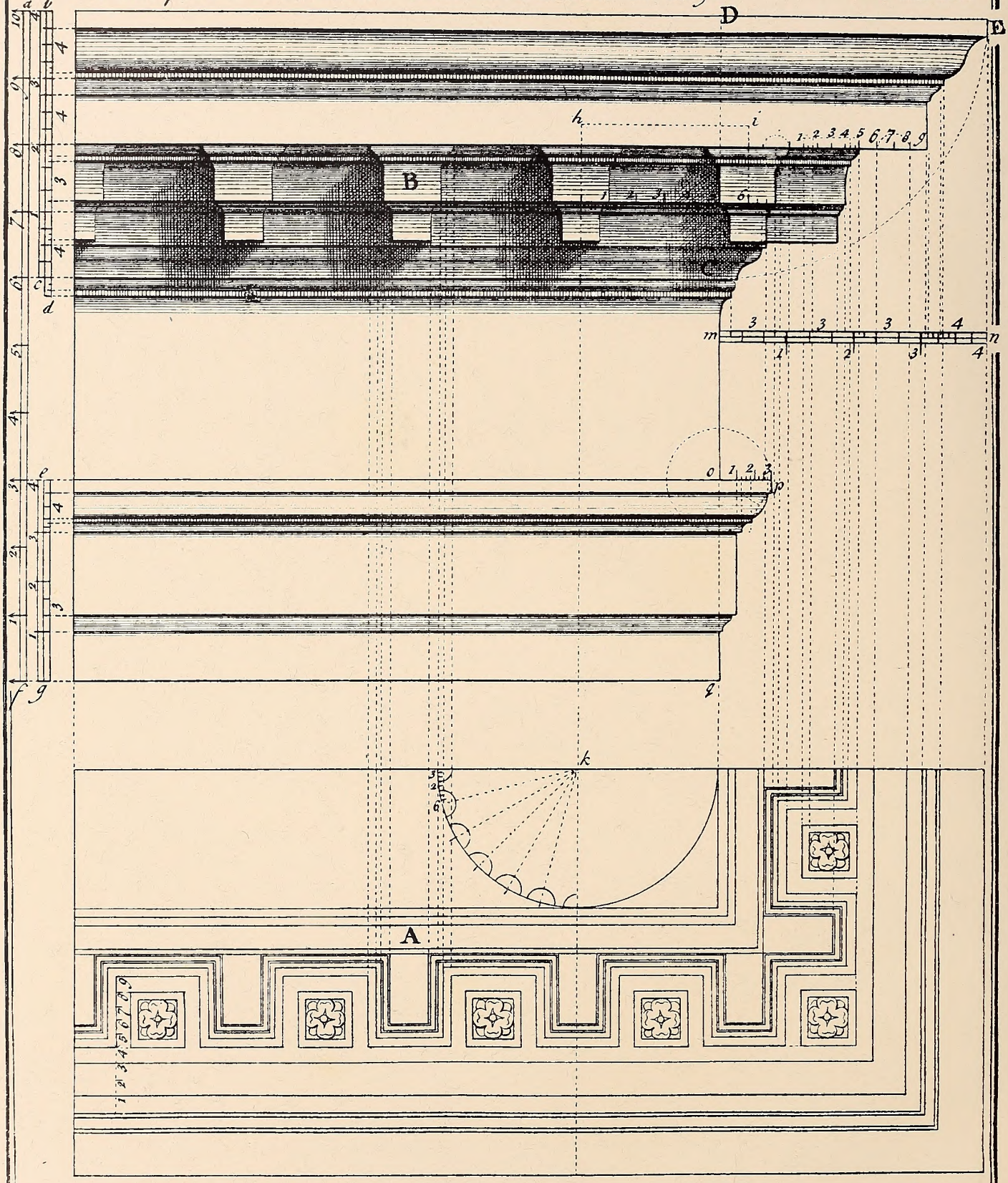
The Composite Entablature with its Planceer at large. Plate XV.



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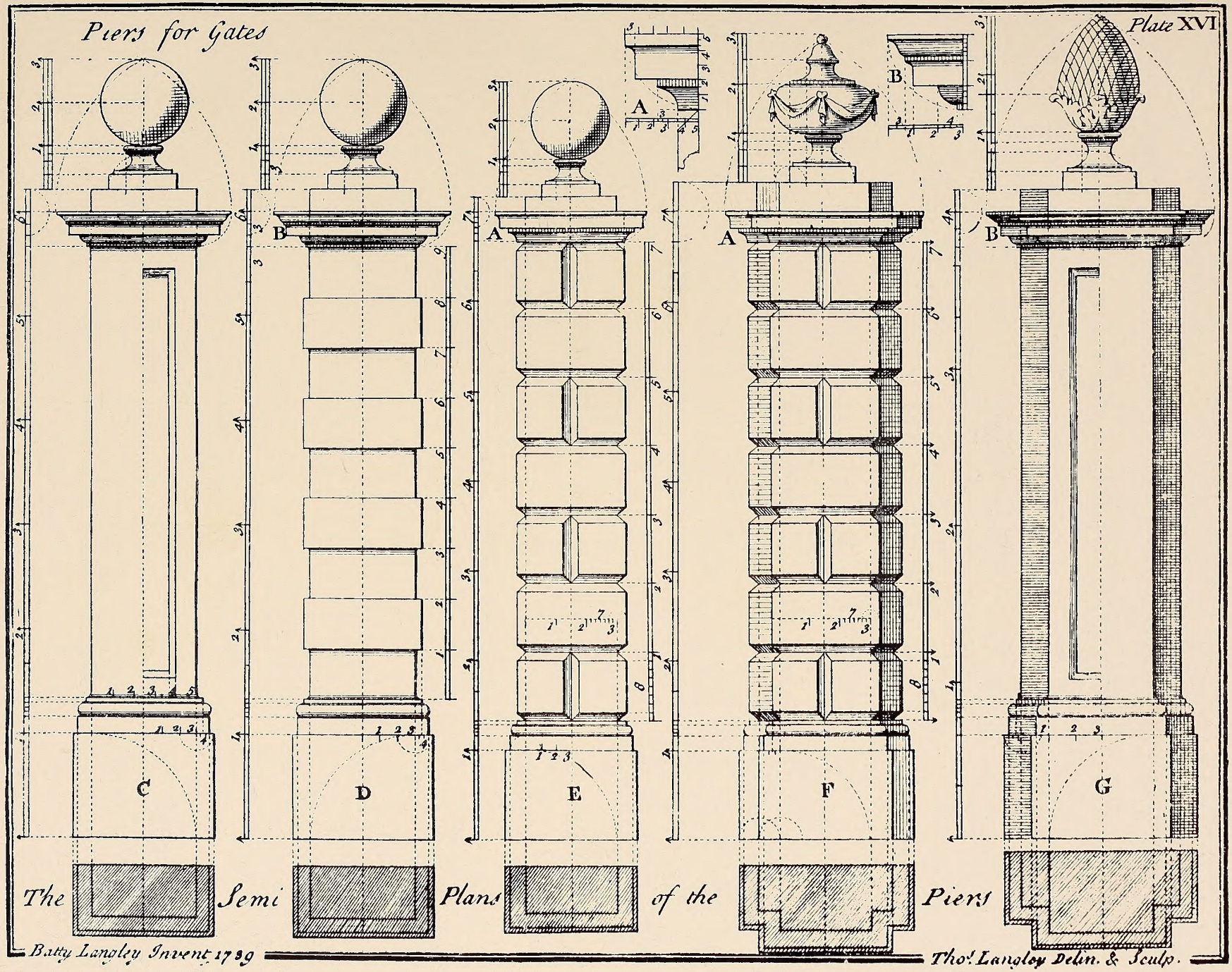

Piers for Gates
Plate XVI
A
B
A
A
B
C
D
E
F
G
The Semi Plans of the Piers
Batty Langley Invent. 1739
Thos. Langley Delin. & Sculp.

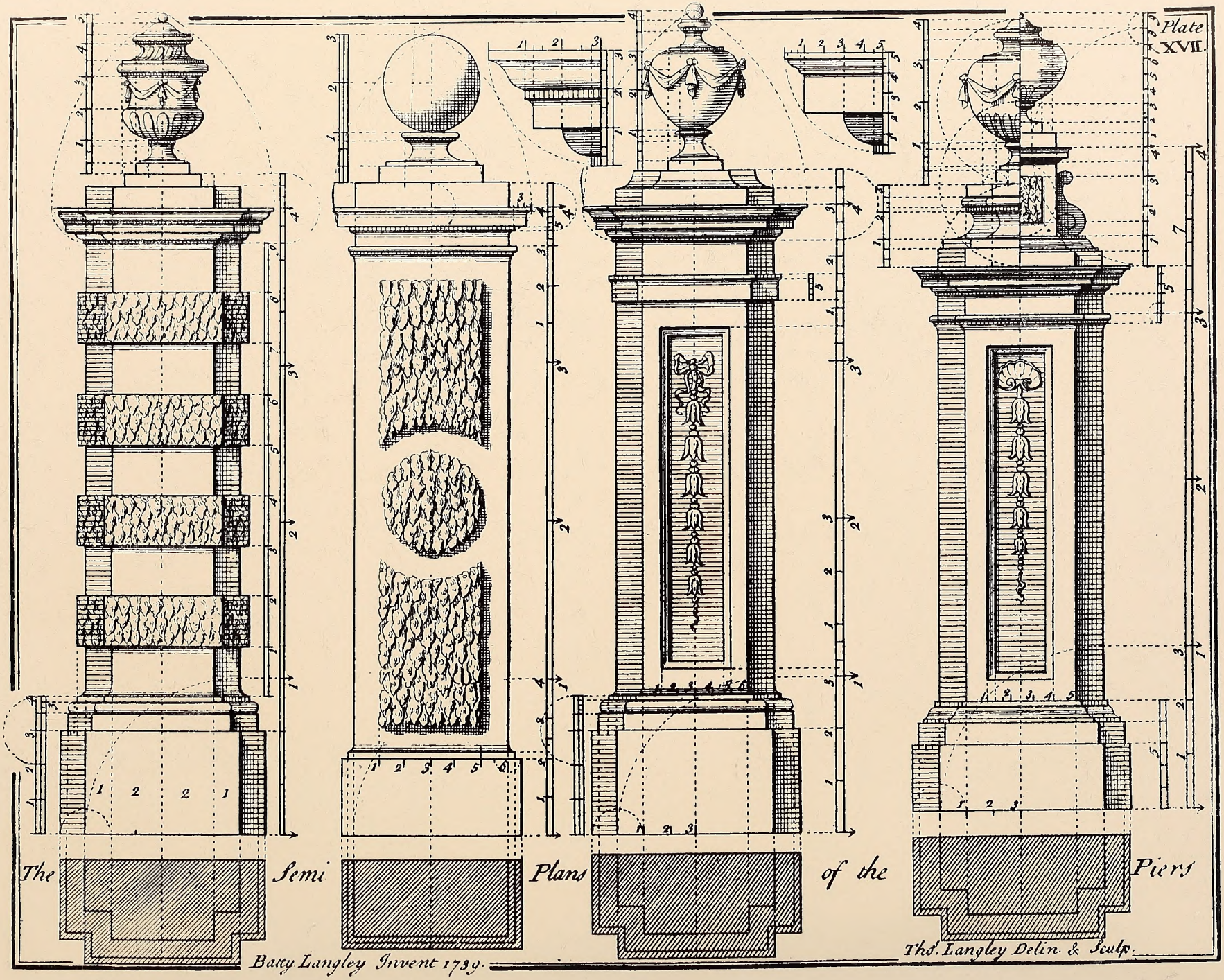
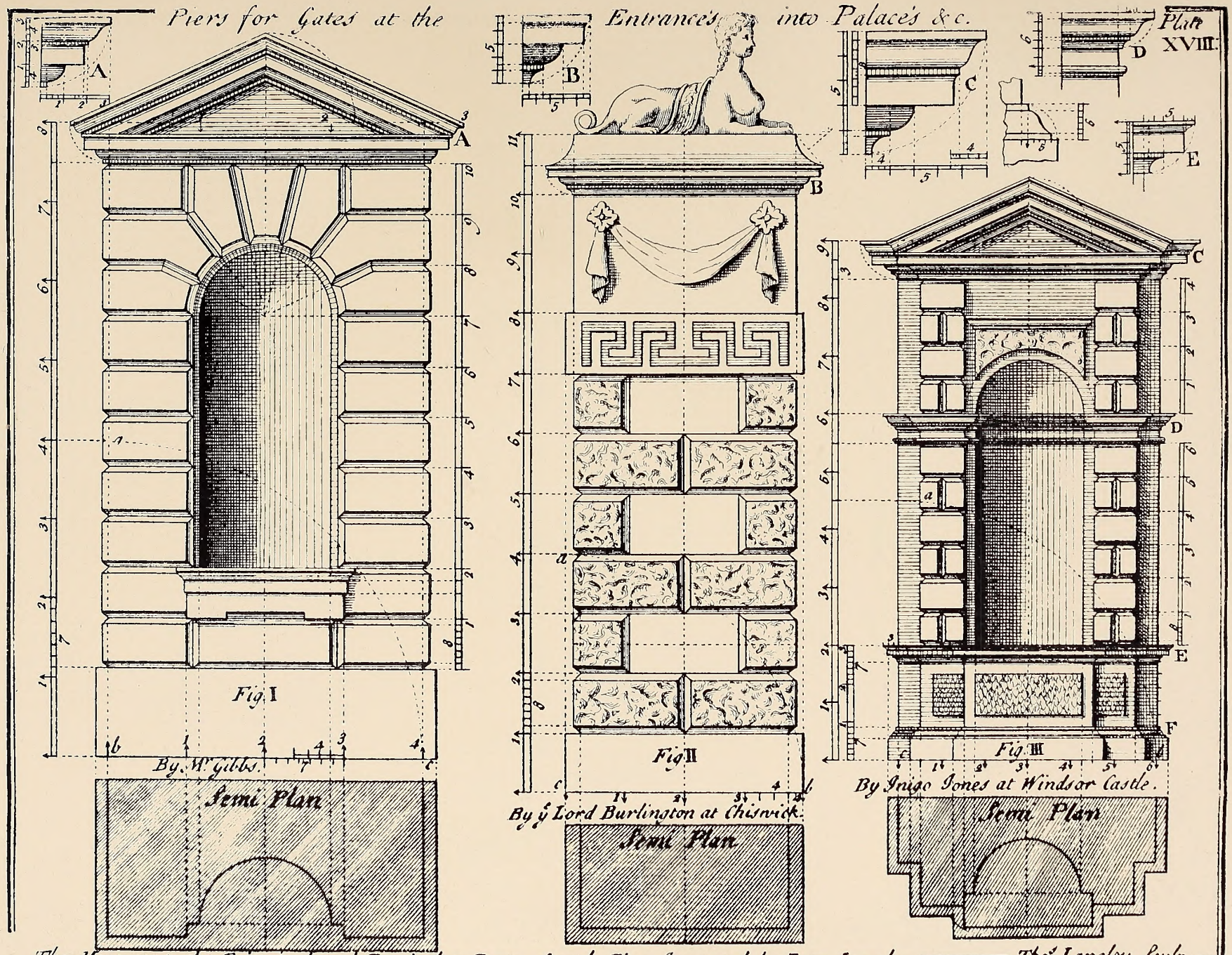


Plate XVII.
The Semi Plans of the Piers
Batty Langley Invent 1739.
Thos. Langley Delin. & Sculp.



The Measures to the Principal and Particular Parts of each Pier Invented by Batty Langley. —— Thos. Langley Sculp.

Plate XIX.

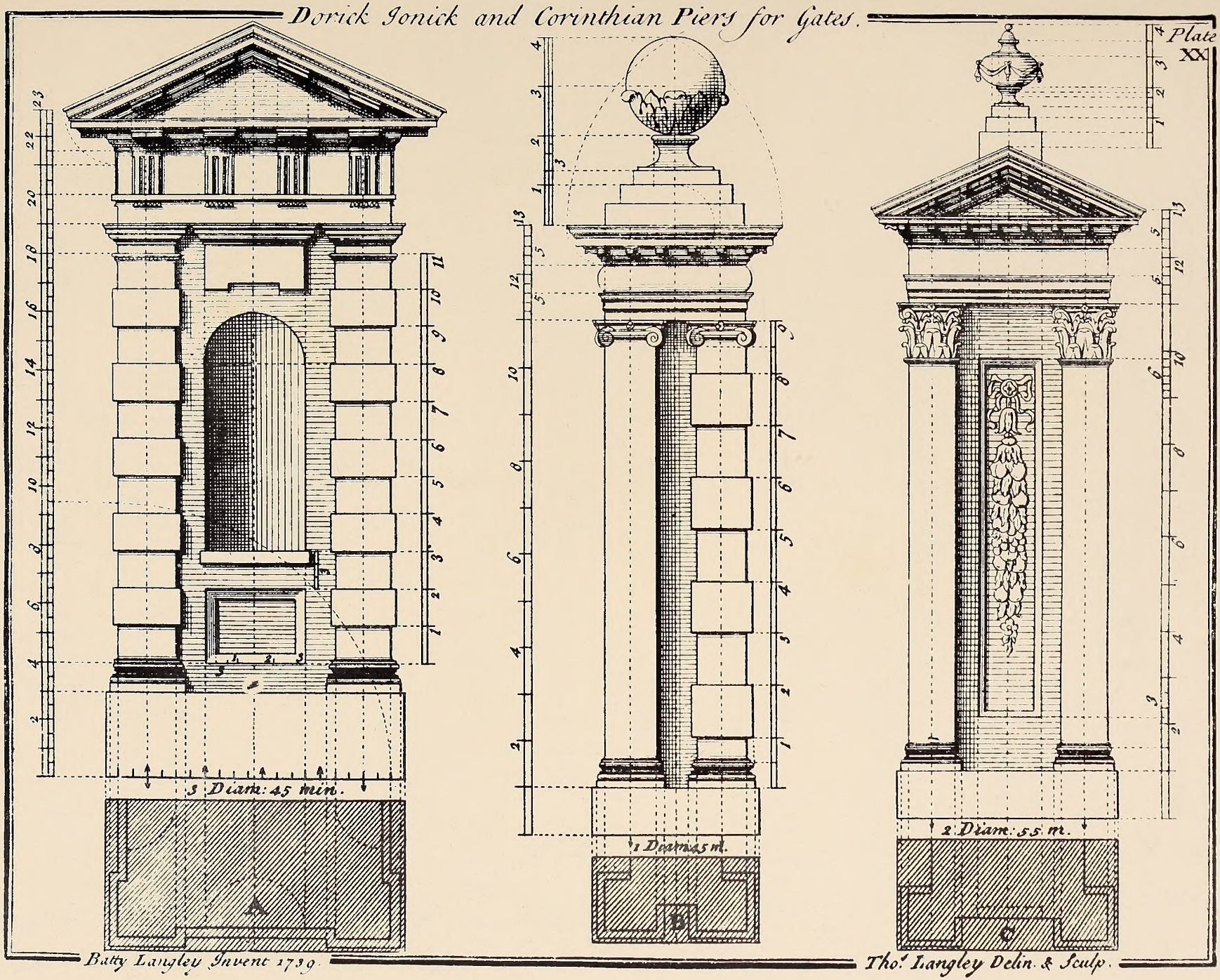
Tuscan and Dorick Piers for Gates.

Thos: Langley Delin: & Sculp.

Batty Langley Inventt 1739.

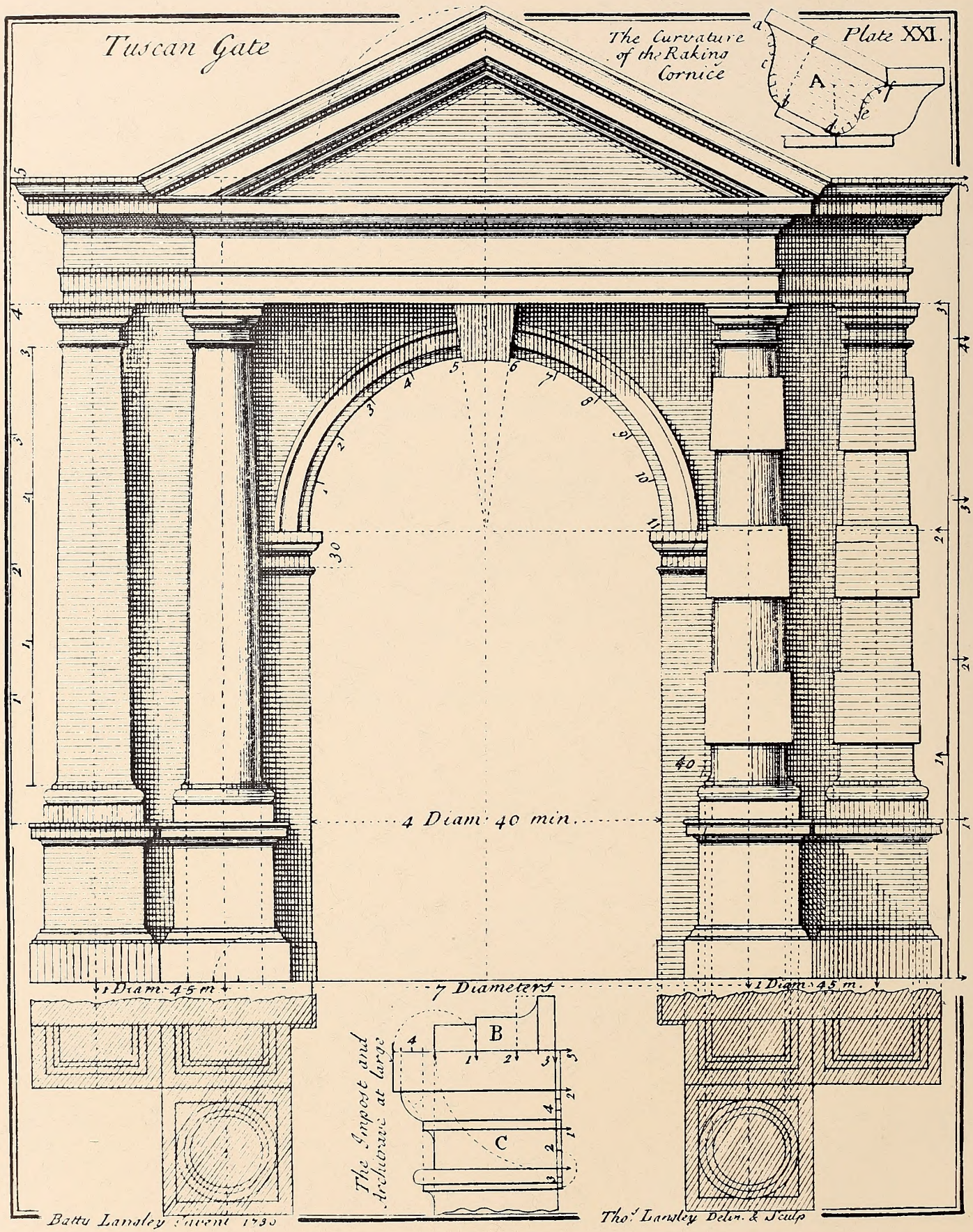
Dorick Jonick and Corinthian Piers for Gates.

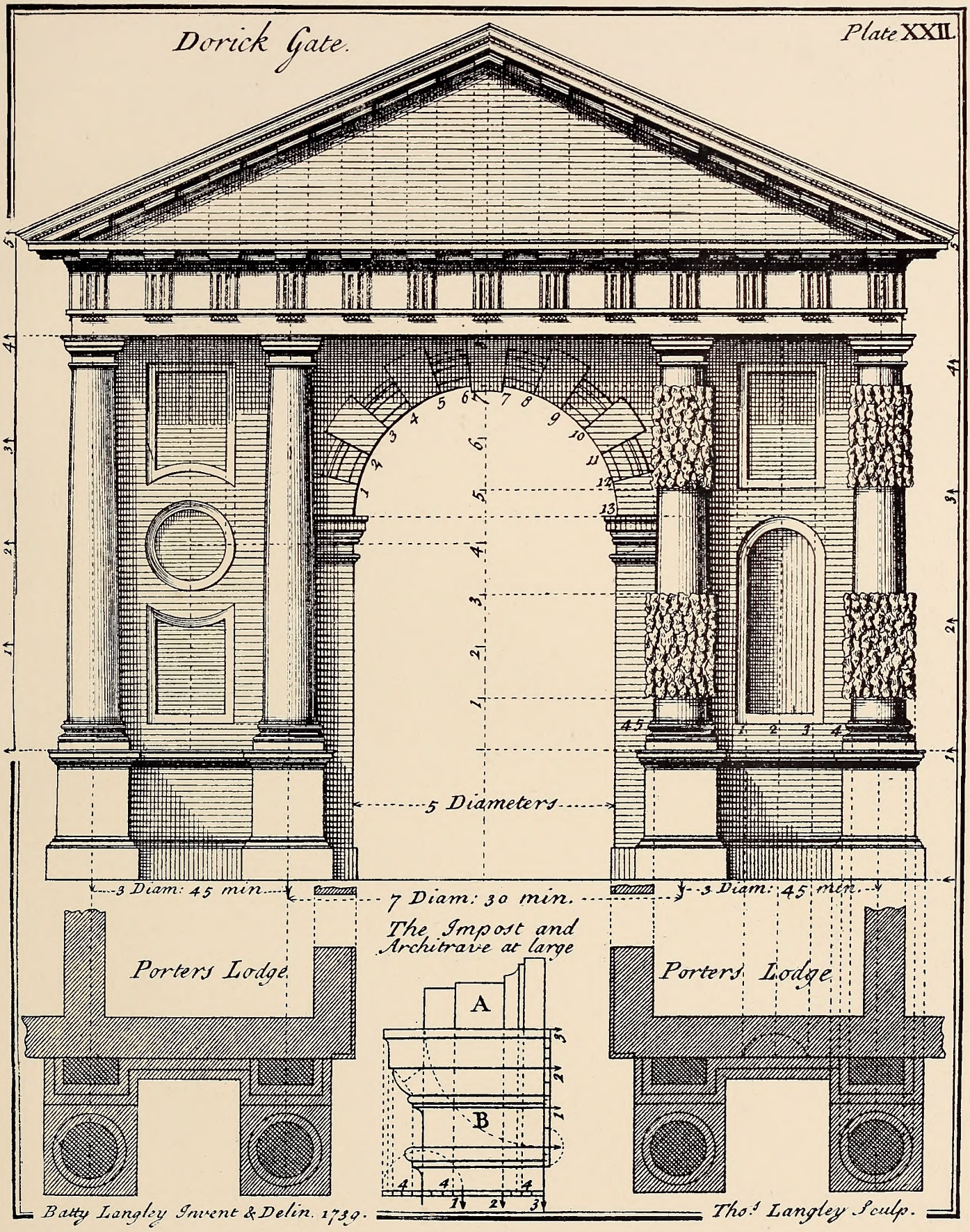
Plate XX

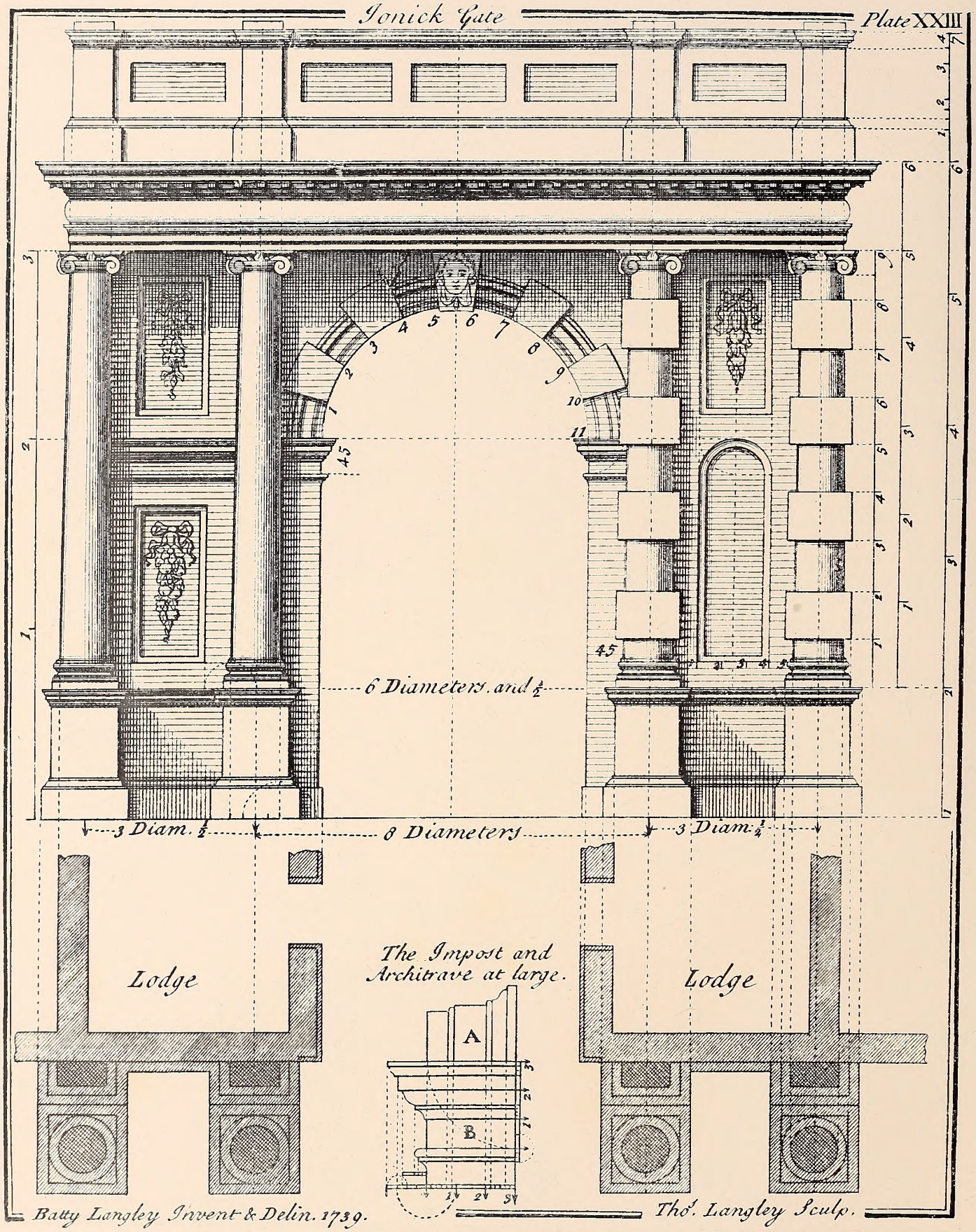


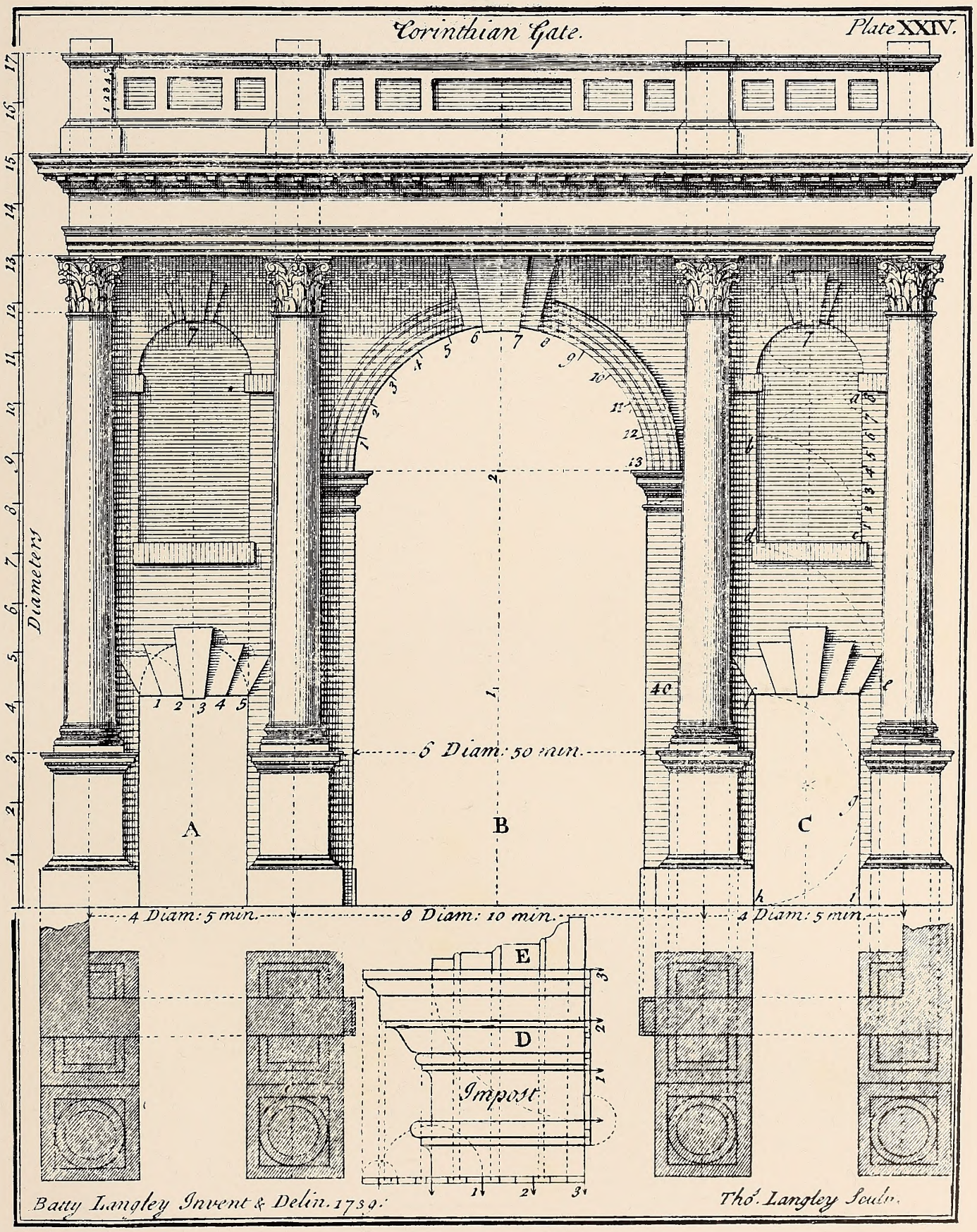
Batty Langley Invent 1739.

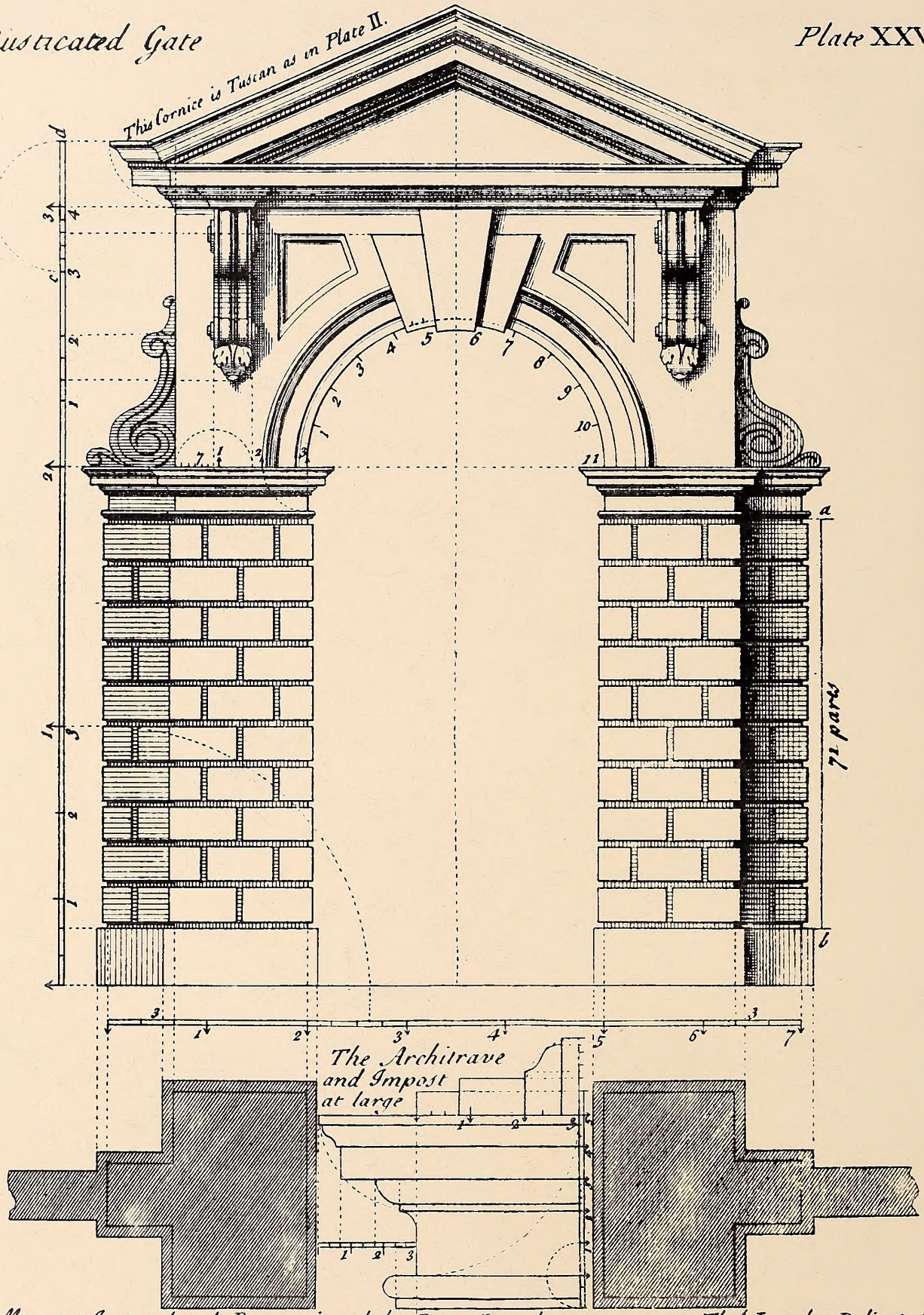
Thos. Langley Delin. & Sculp.


Tuscan Gate
Plate XXI.
The Curvature of the Raking Cornice
A
4 Diam 40 min
1 Diam 45 m
7 Diameters
1 Diam 45 m
B
C
The Impost and Architrave at large
Batty Langley Invent 1730
Thos Langley Delin. & Sculp


Dorick Gate.
Plate XXII.
5 Diameters
3 Diam: 45 min.
7 Diam: 30 min.
3 Diam: 45 min.
The Impost and Architrave at large
Porters Lodge
Porters Lodge
A
B
Batty Langley Invent & Delin. 1739.
Thos Langley Sculp.

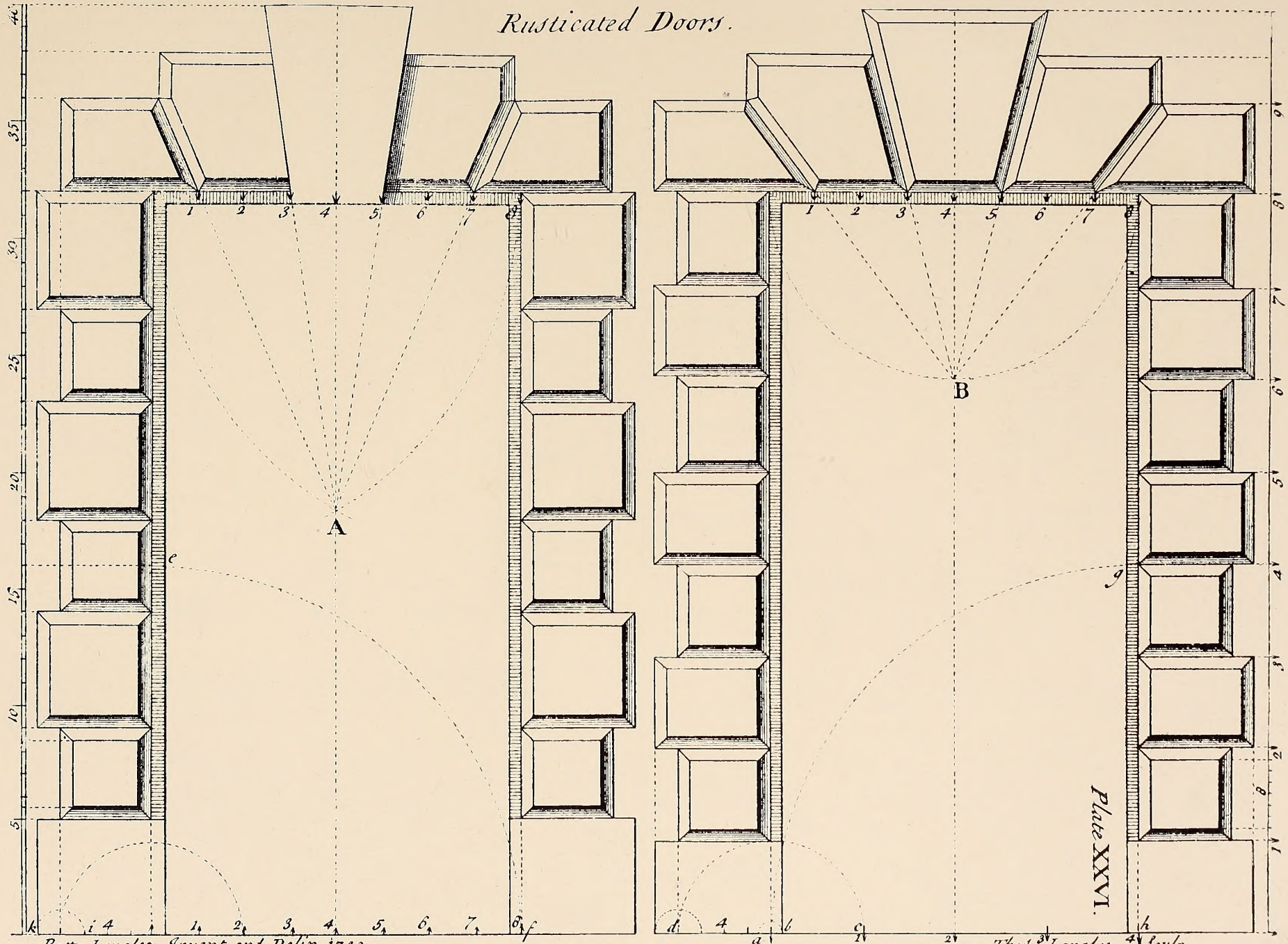

Ionick Gate
Plate XXIII
6 Diameters and ½
3 Diam. ½
8 Diameters
3 Diam. ¼
Lodge
Lodge
The Impost and Architrave at large.
A
B
Batty Langley Invent & Delin. 1739.
Thos. Langley Sculp.


Corinthian Gate.
Plate XXIV.
Diameters
6 Diam: 50 min.
4 Diam: 5 min.
8 Diam: 10 min.
4 Diam: 5 min.
A
B
C
D
E
Impost
Batty Langley Invent & Delin. 1739.
Thos. Langley Sculp.



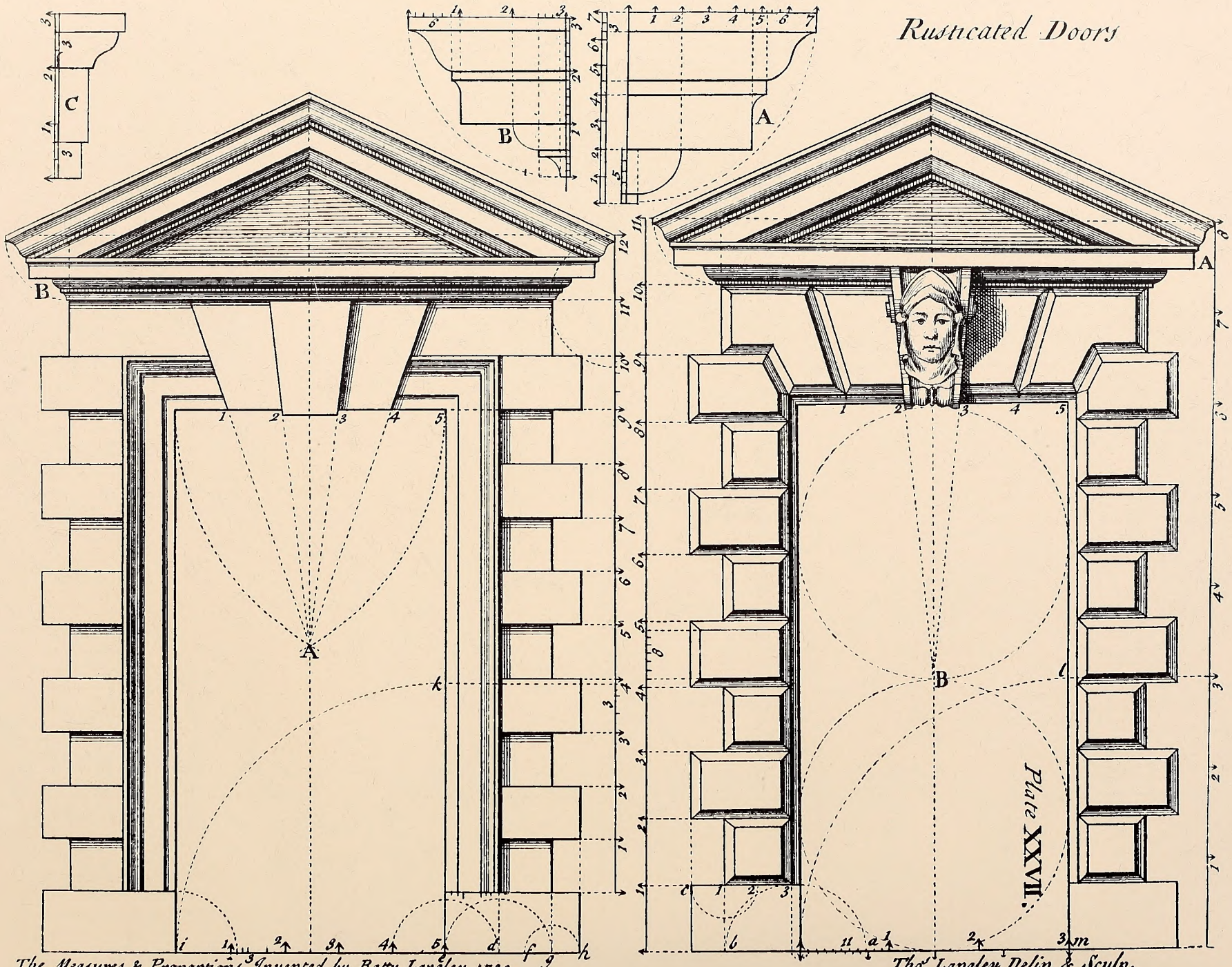
The Measures Invented and Proportioned by Batty Langley 1739. Thos. Langley Delin. & Sculp.

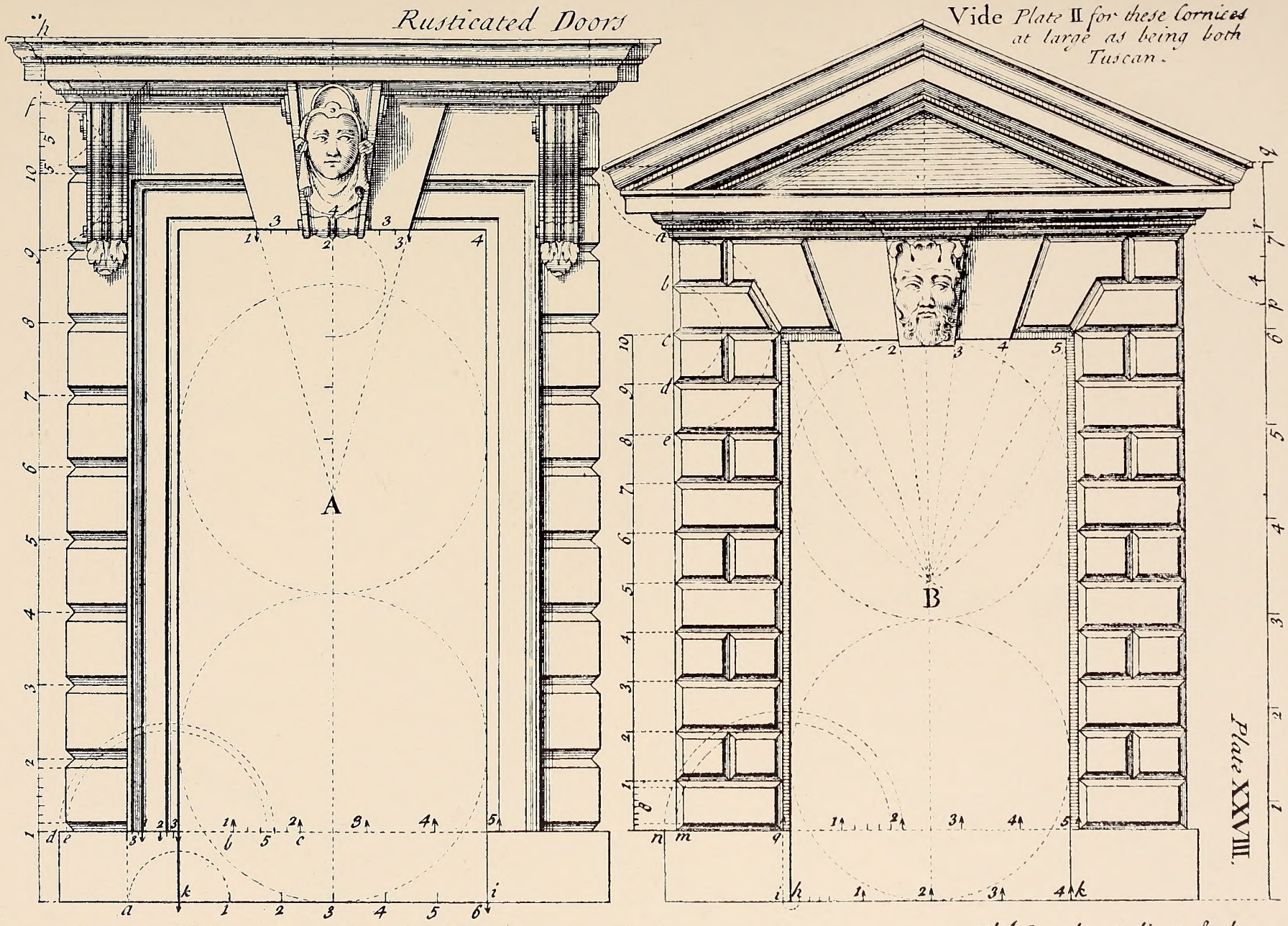
Rusticated Doors.



Batty Langley Invent and Delin. 1739.

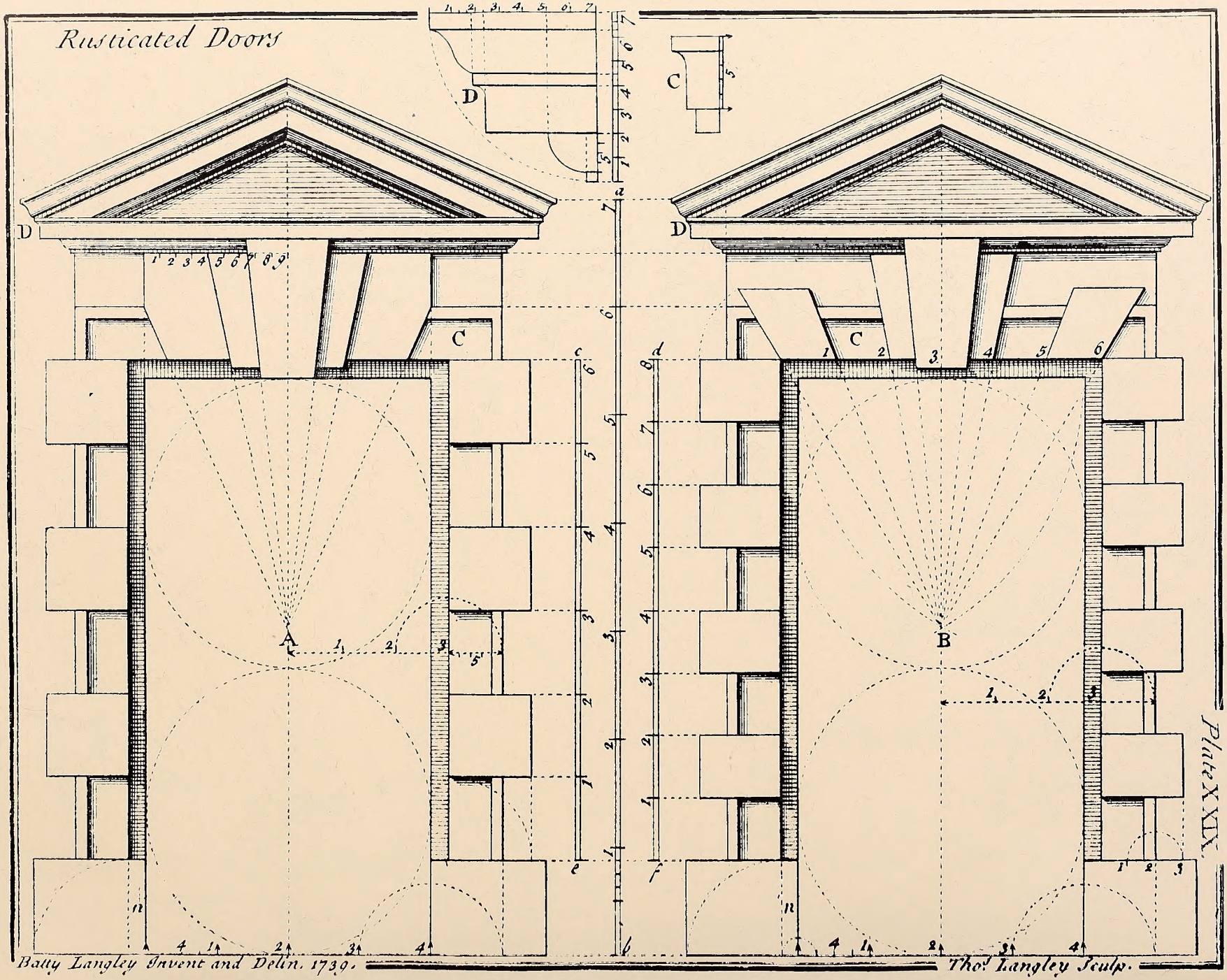
Thos. Langley Sculp.

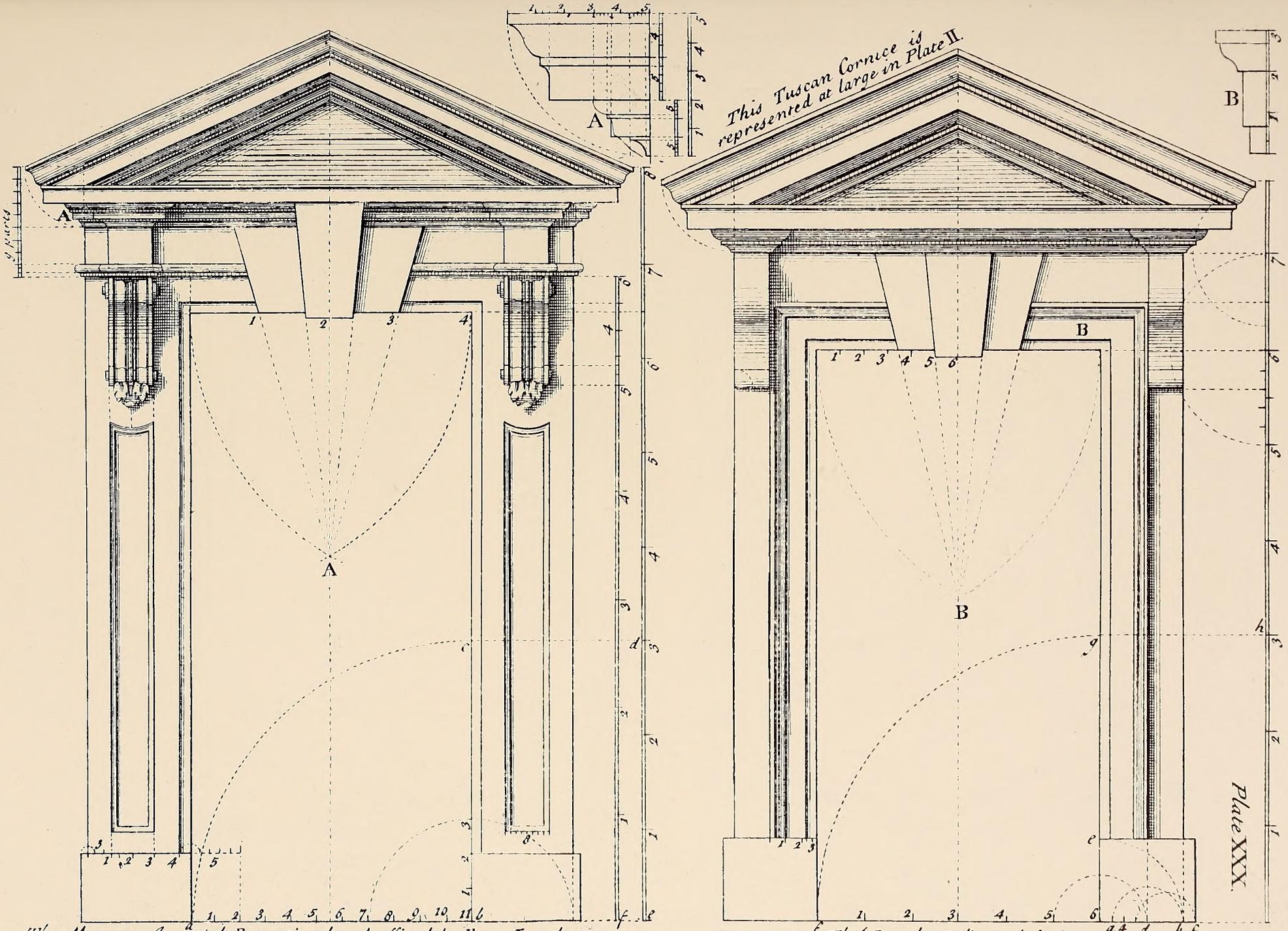

Rusticated Doors
Plate XXVII.
The Measures & Proportions Invented by Batty Langley 1739.
Thos. Langley Delin & Sculp.



The Measures Invented Proportioned & Affixed by Batty Langley 1730.

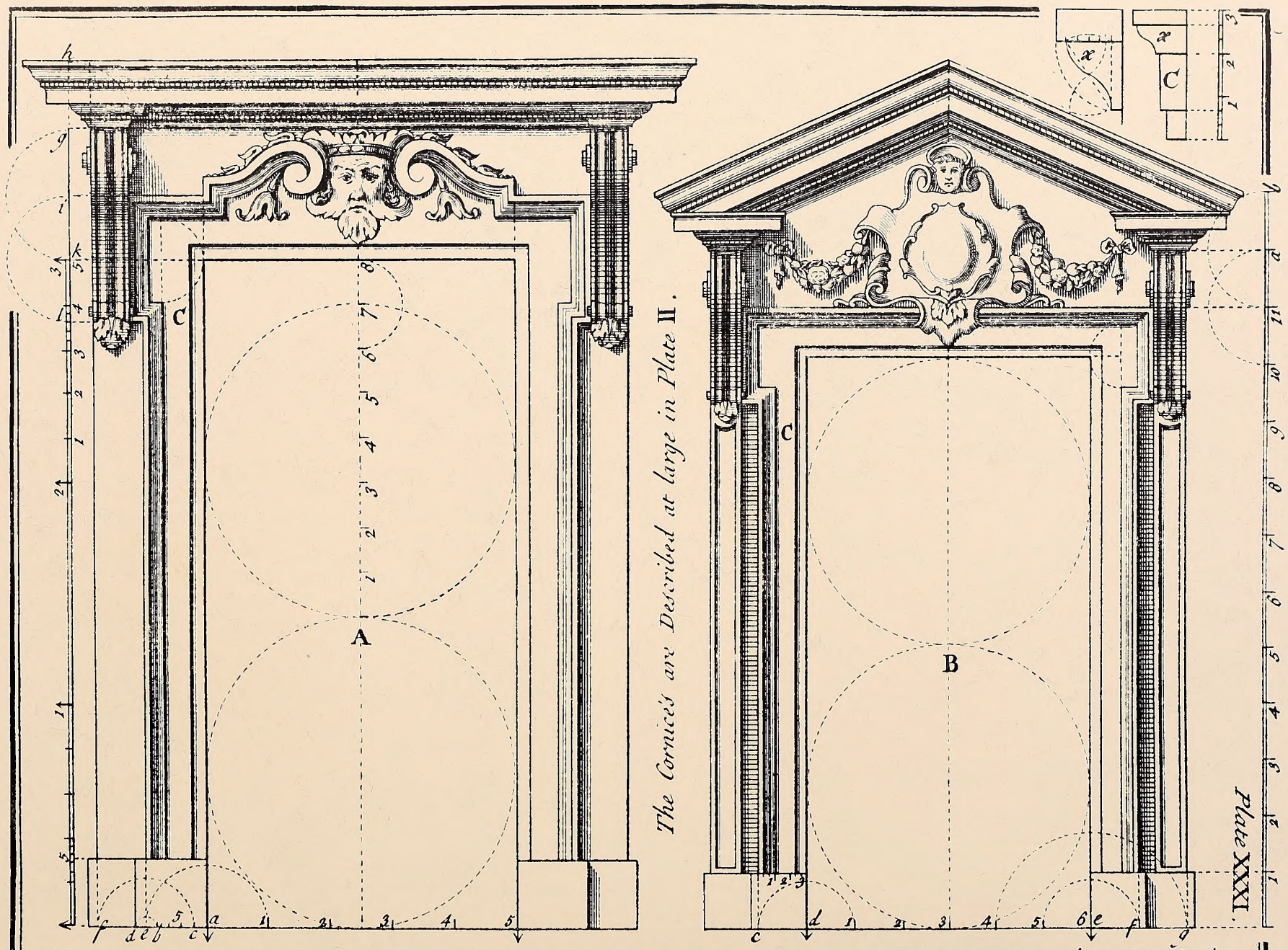
Thos. Langley Delin. & Sculp.


Rusticated Doors
D
C
A
B
Batty Langley Invent and Delin. 1739.
Thos Langley Sculp.
Plate XXIX.



The Measures Invented, Proportioned and affixed by Batty Langley 1739.

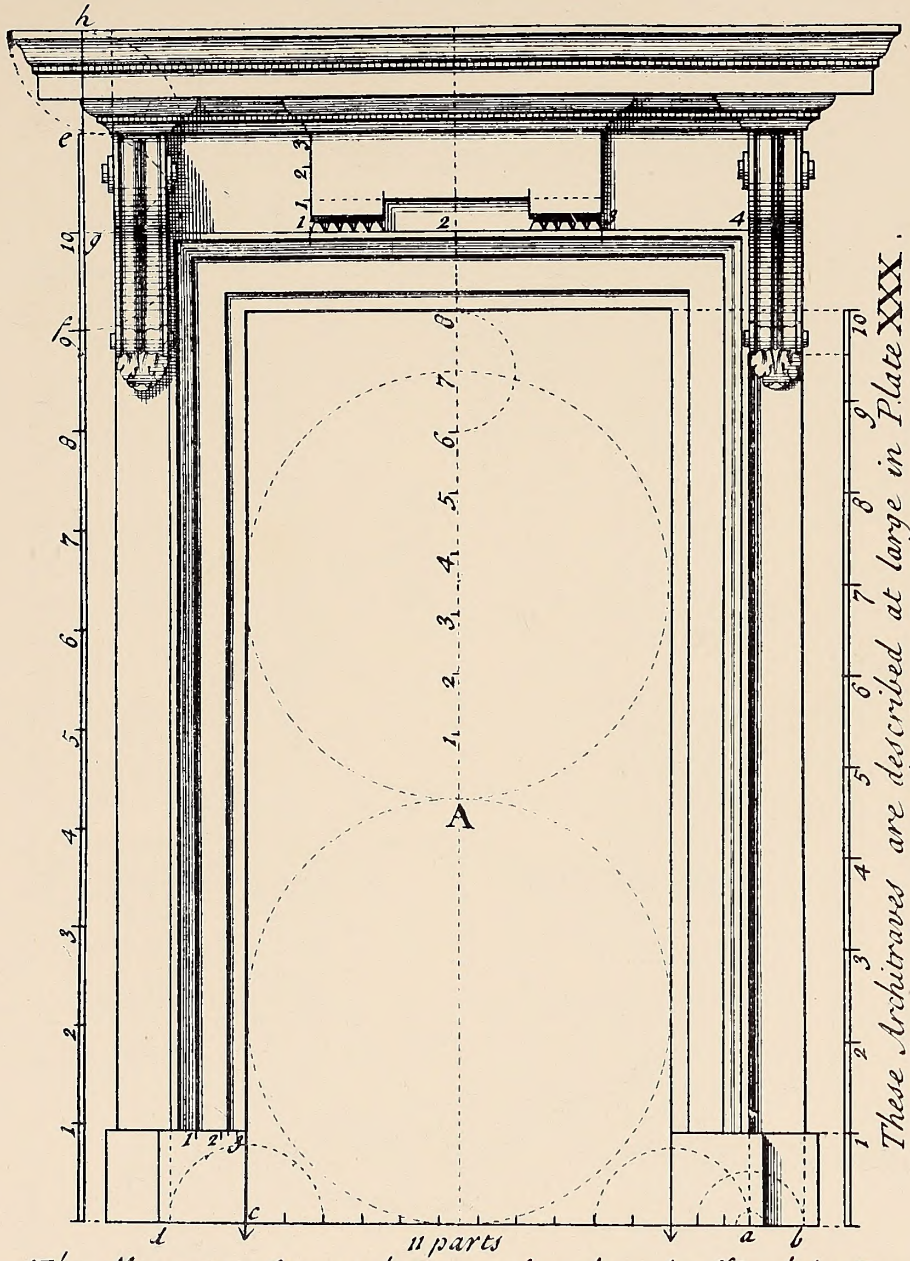
Thos. Langley Delin. and Sculp.



The Measures Invented, proportioned and affixed by Batty Langley 1739.

Thos. Langley Delin. and Sculp.

Plate XXXI



These Architraves are described at large in Plate XXX.
and the Cornices in Plate II.

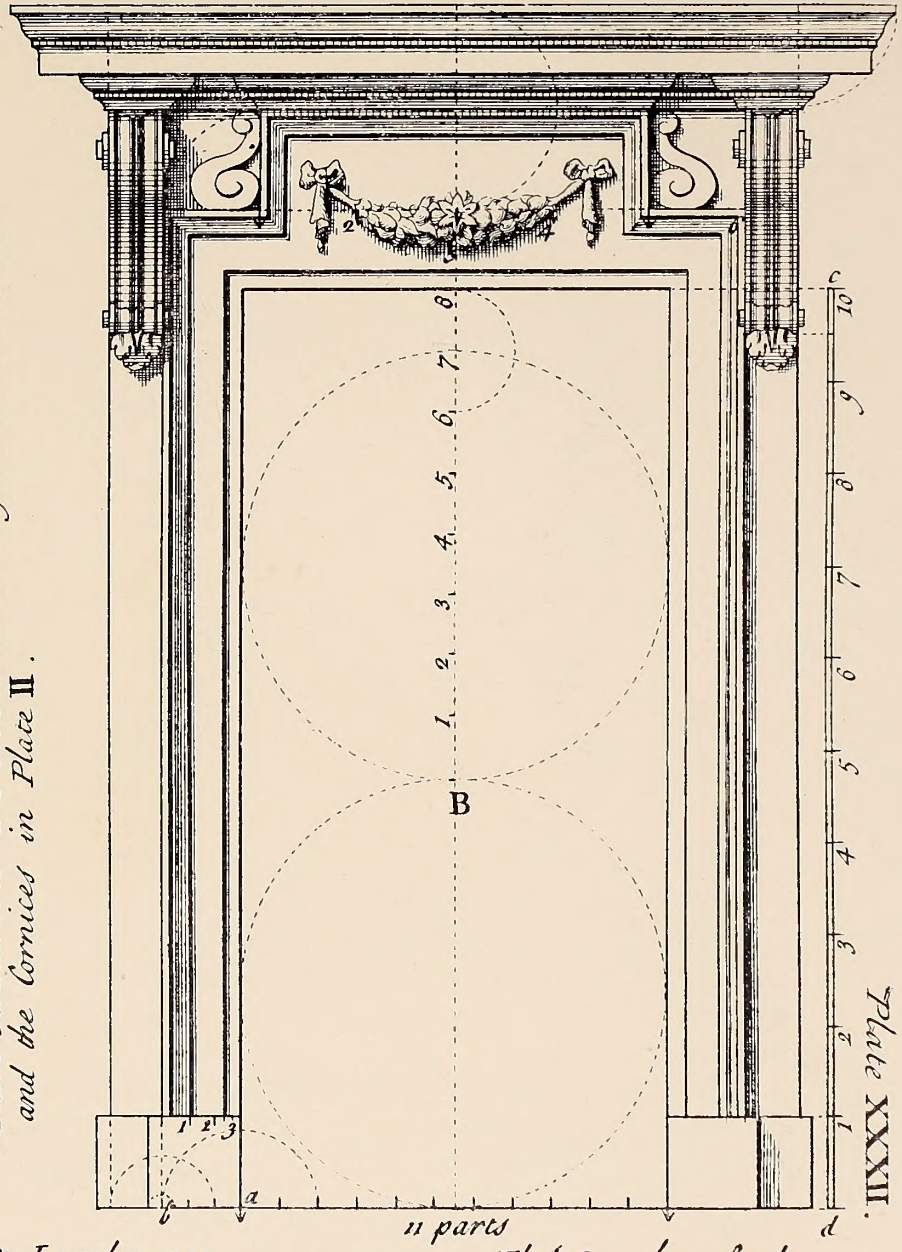
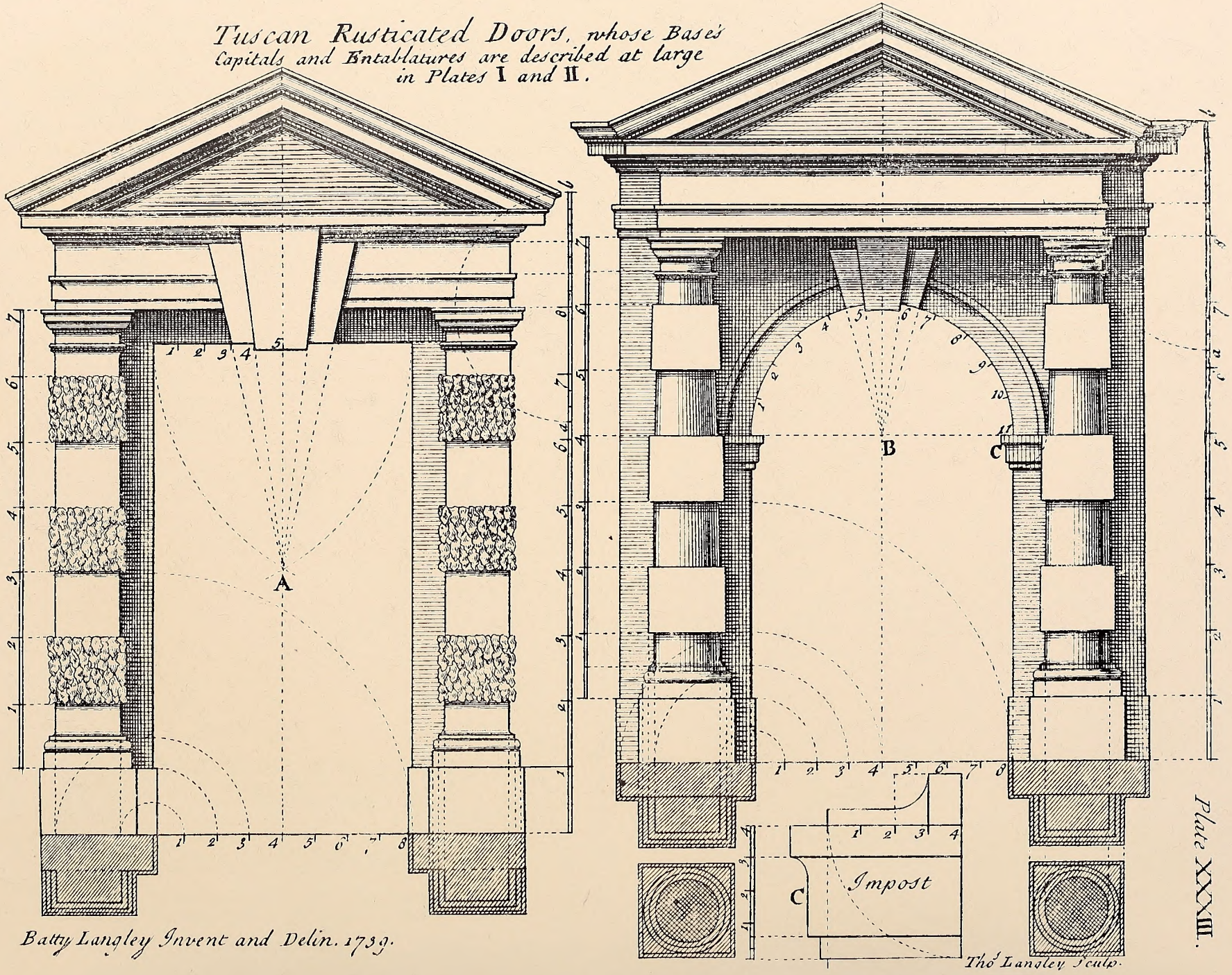


Plate XXXII.

The Measures Invented, proportioned and affixed by Batty Langley 1739.

Thos. Langley Sculp.

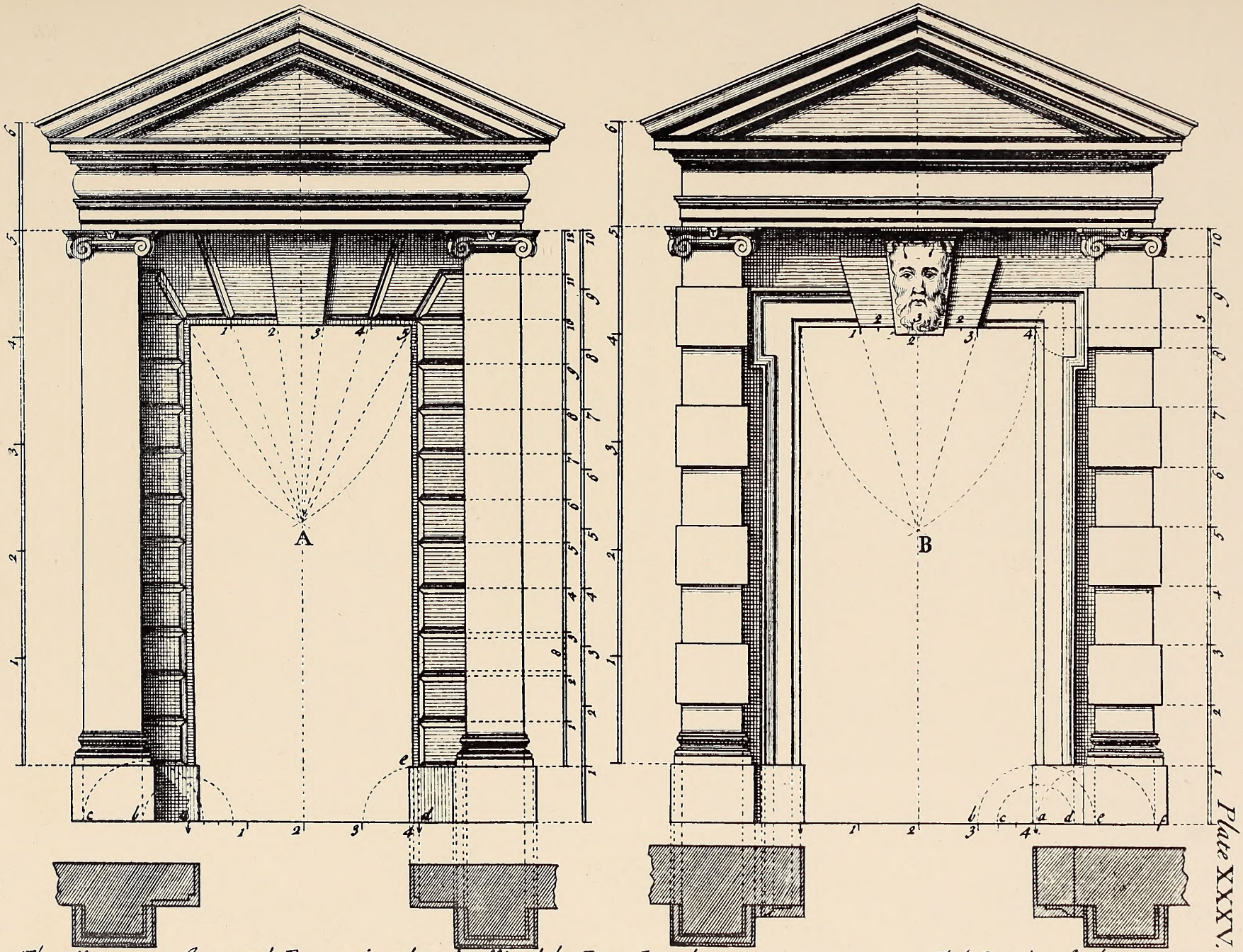
Tuscan Rusticated Doors, whose Bases Capitals and Entablatures are described at large in Plates **I** *and* **II**.



Batty Langley Invent and Delin. 1739.

Thos Langley Sculp.

Plate XXXIII.

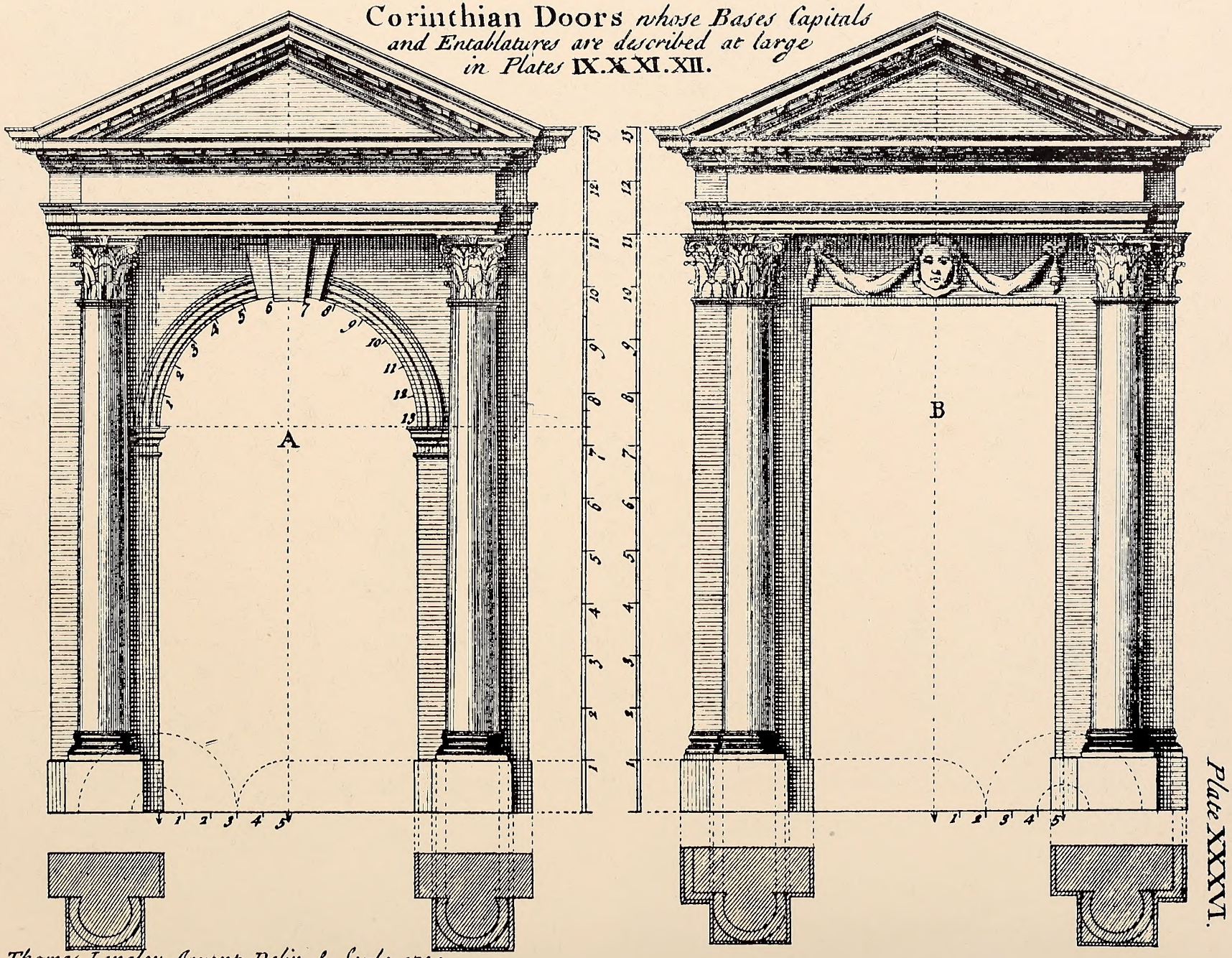


The Measures Invented Proportioned and affixed by Batty Langley 1739.

Thos. Langley Sculp.

Plate XXXV.

Corinthian Doors *whose Bases Capitals and Entablatures are described at large in Plates* IX.XXI.XII.

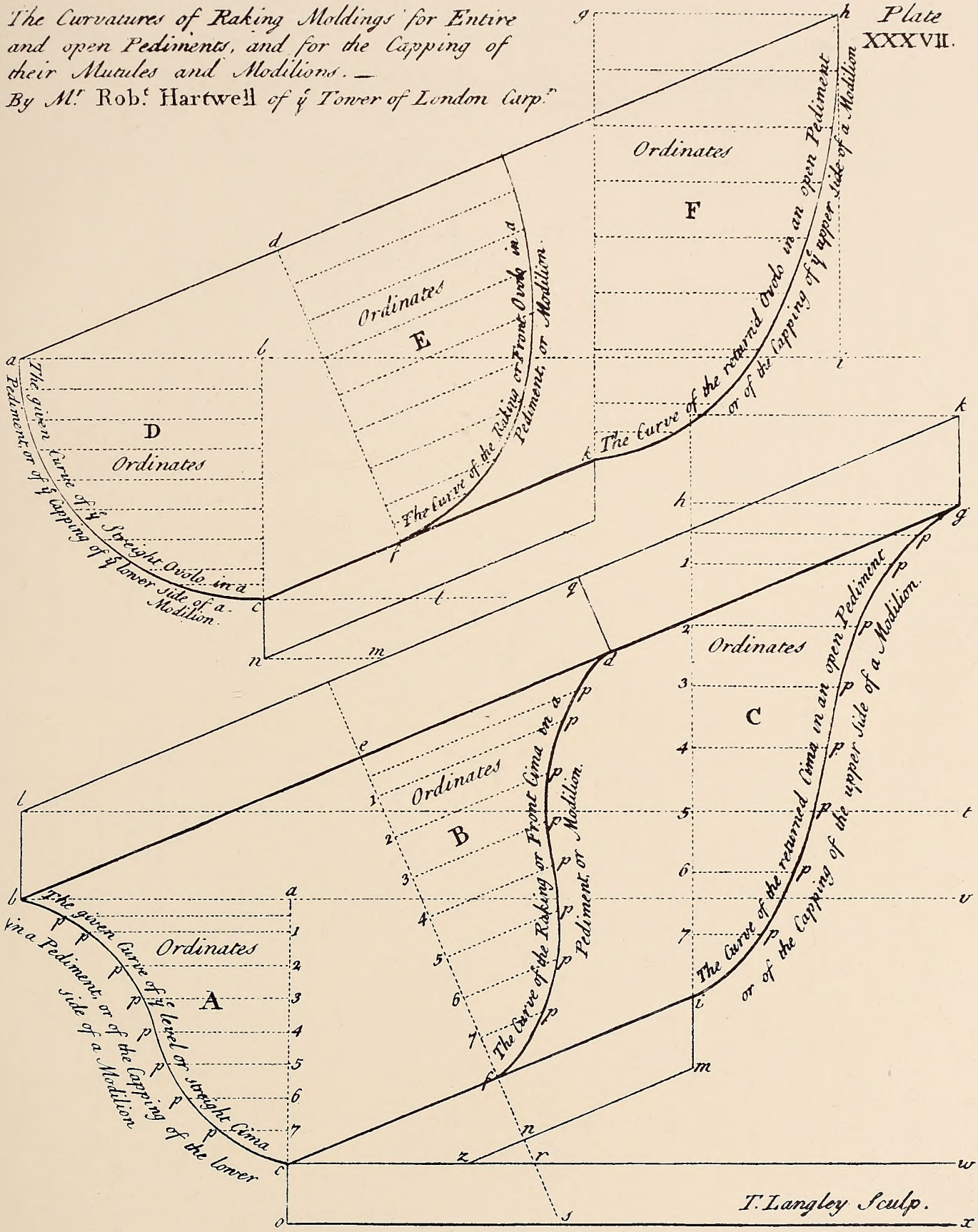


Thomas Langley Invent; Delin. & Sculp. 1739.

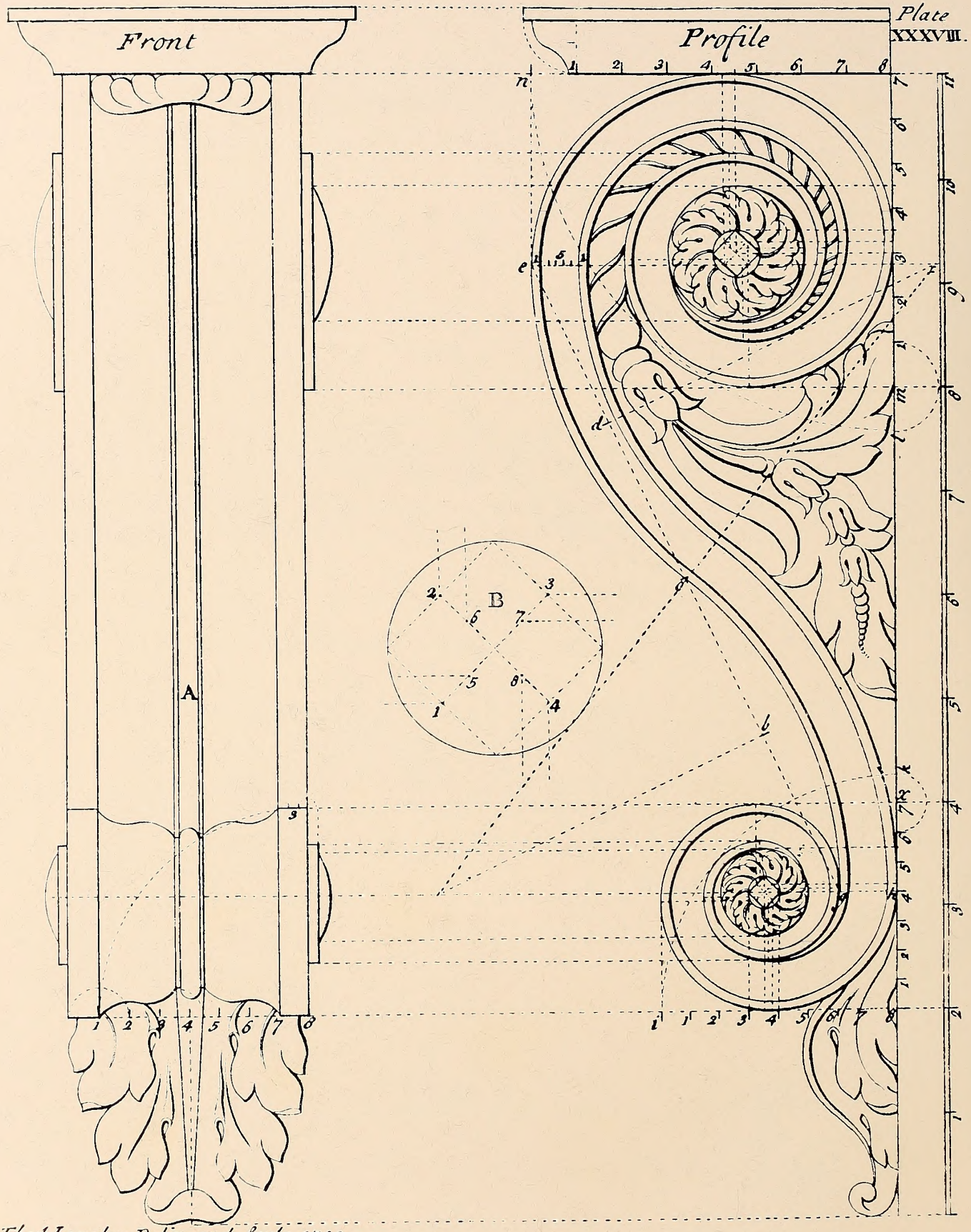
Plate XXXVI.

The Curvatures of Raking Moldings for Entire and open Pediments, and for the Capping of their Mutules and Modilions. —
By Mr. Robt. Hartwell *of ye Tower of London Carpr.*

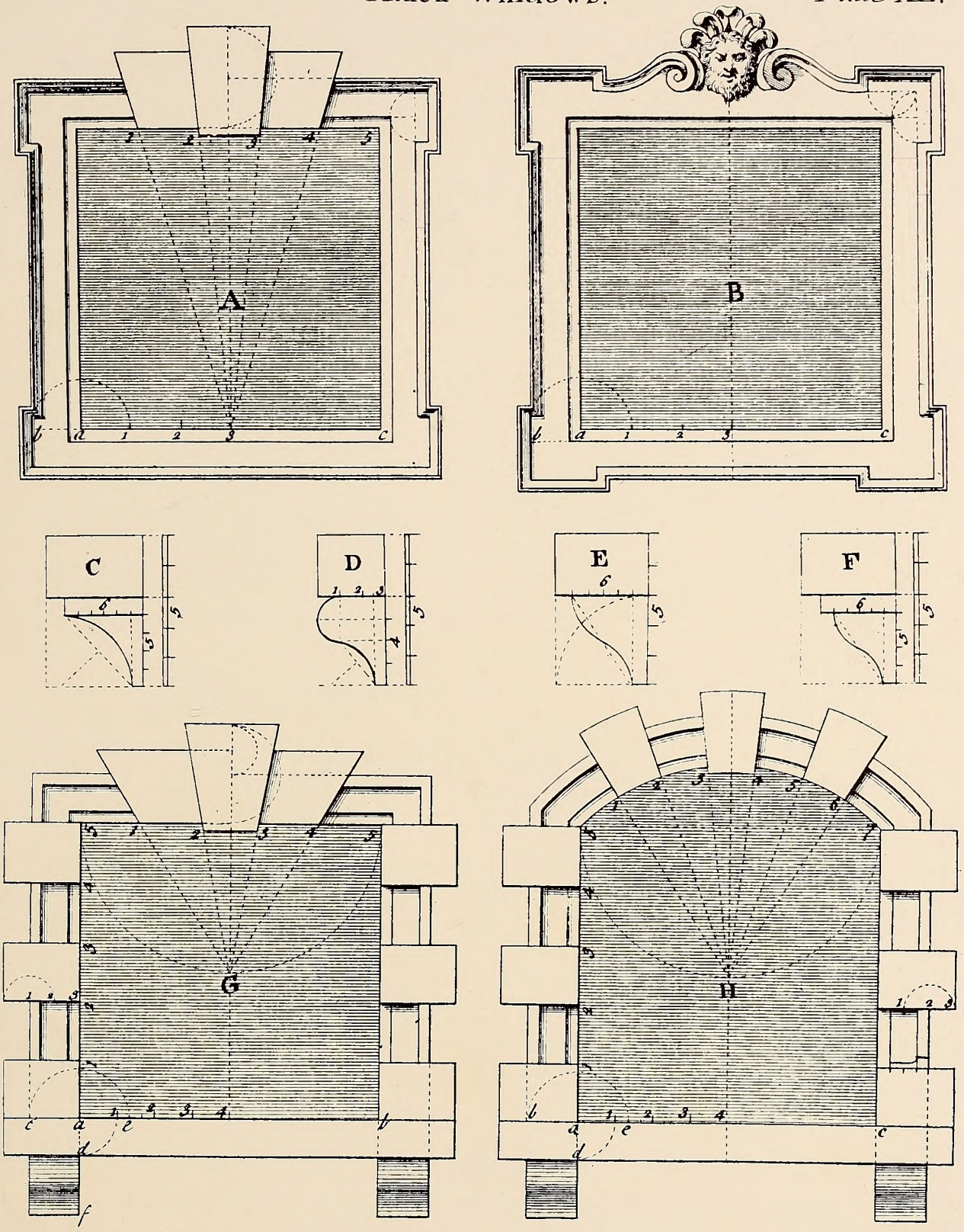
Plate XXXVII.



T. Langley Sculp.



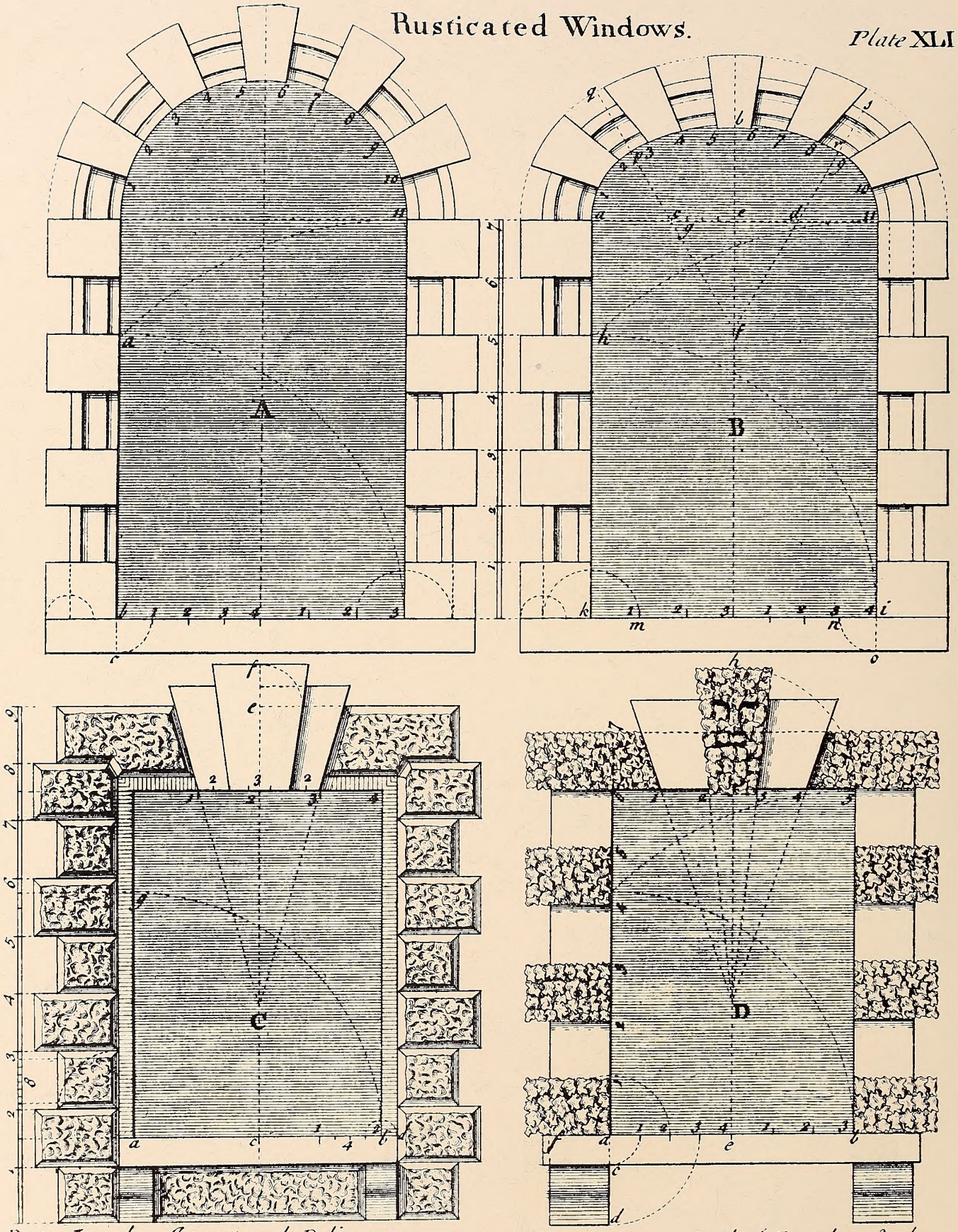
Thos Langley Delin and Sculp. 1739.



Batty Langley Invent and Delin. 1739. *Thos Langley Sculp.*

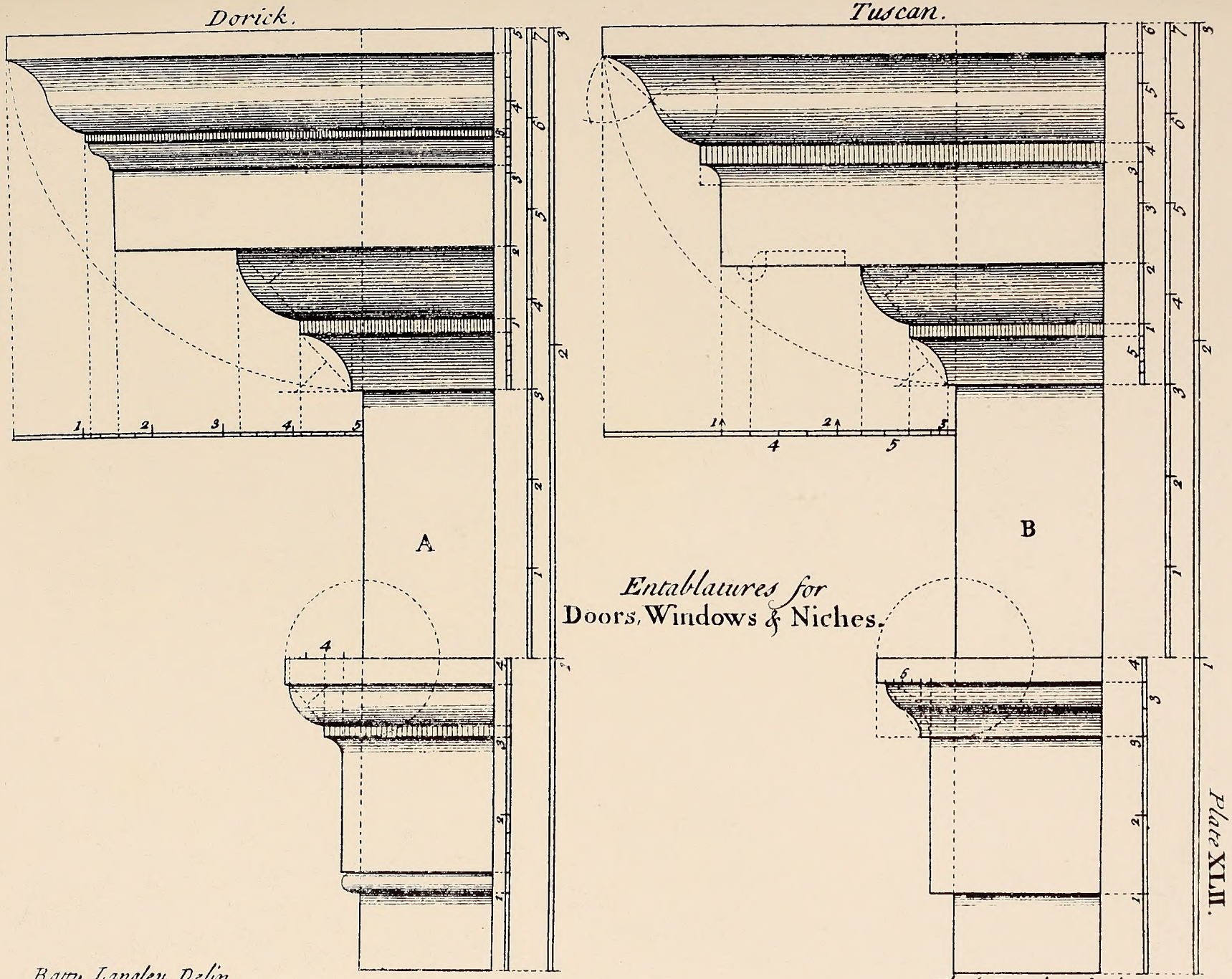
Rusticated Windows.

Plate XLI.



Batty Langley Invent and Delin. 1739.

Thos. Langley Sculp

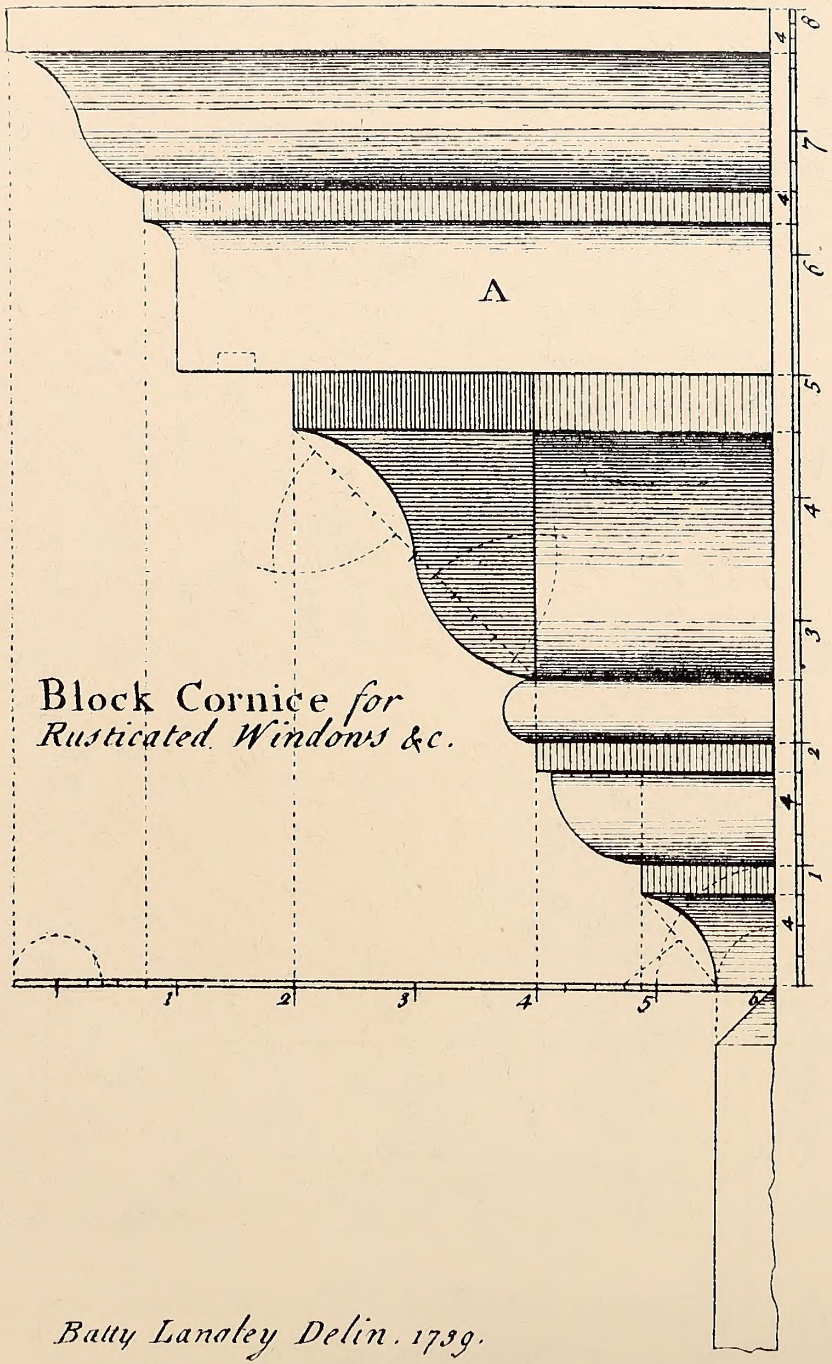


Entablatures for
Doors, Windows & Niches.

Plate XLII.

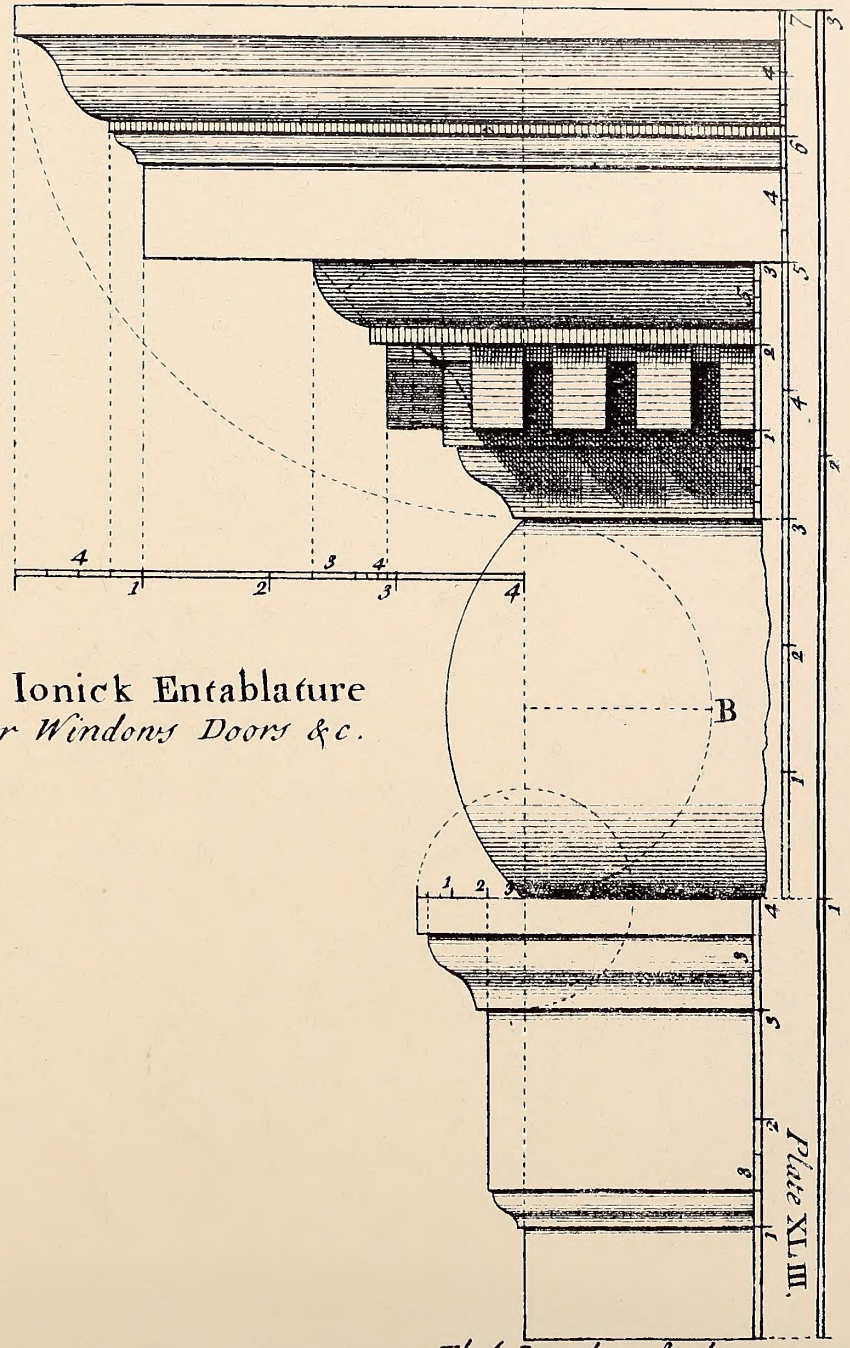
Batty Langley Delin.

Thos Langley Sculp.



Block Cornice *for*
Rusticated Windows &c.

Batty Langley Delin. 1739.



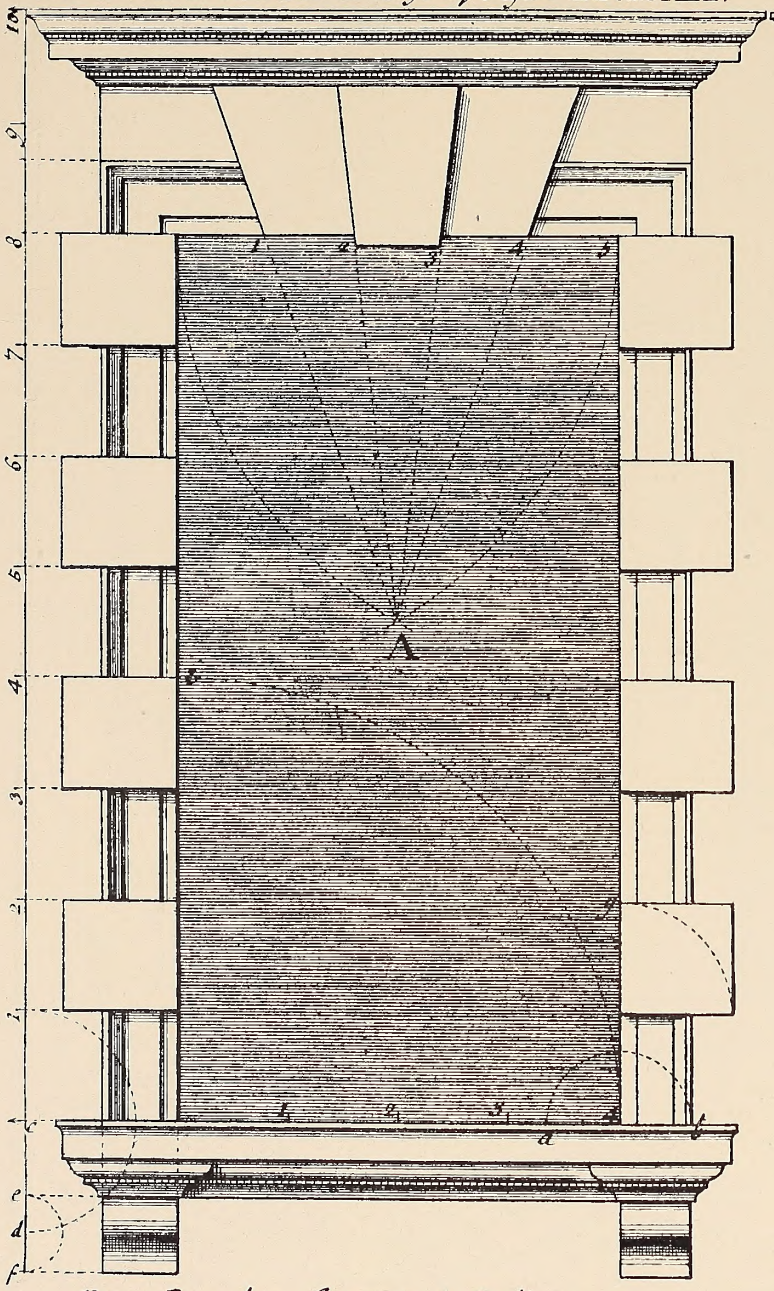
Ionick Entablature
for Windows Doors &c.

Thos. Langley Sculp.

Plate XLIII.

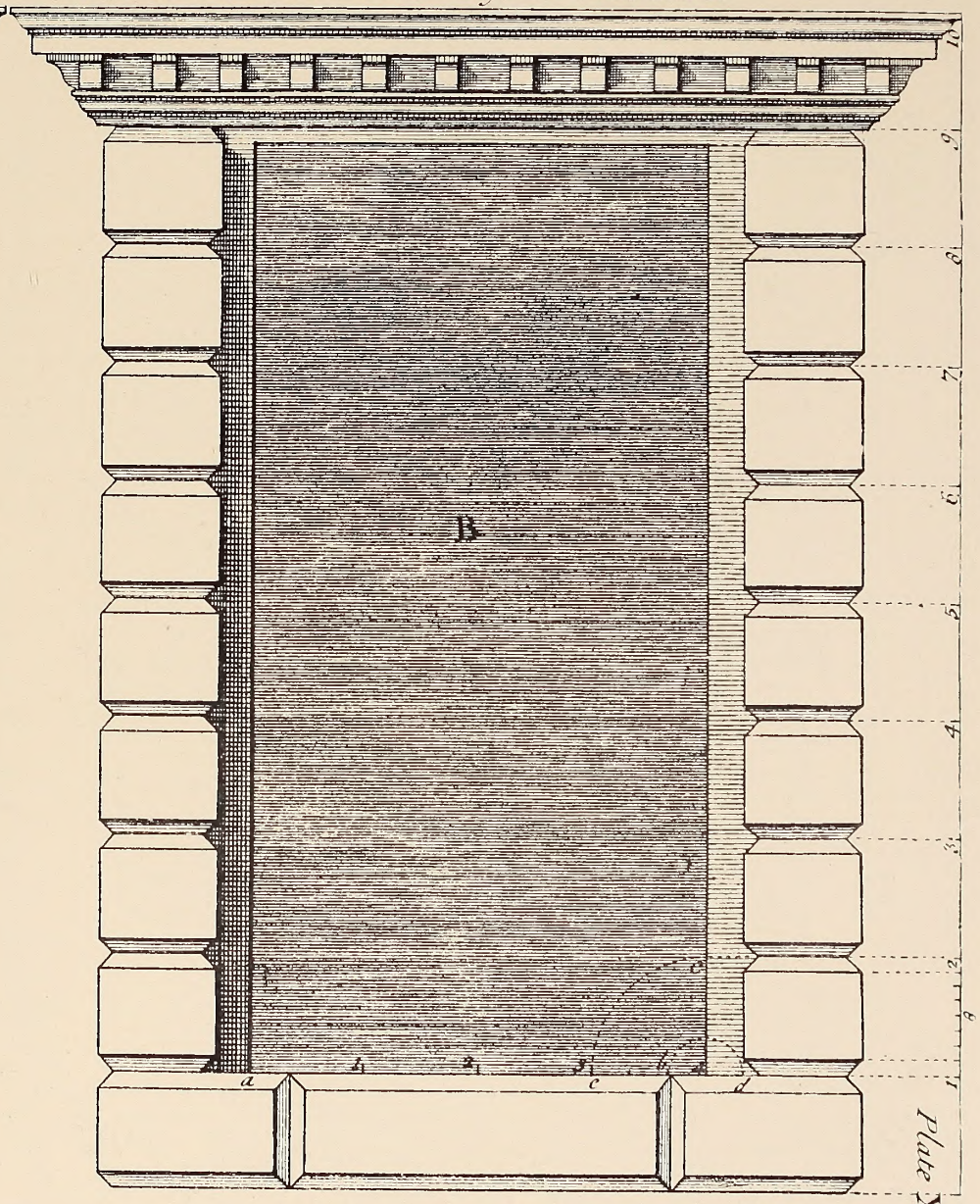
Rusticated Windows.

This Cornice is described at large by Figure B. Plate XLII.



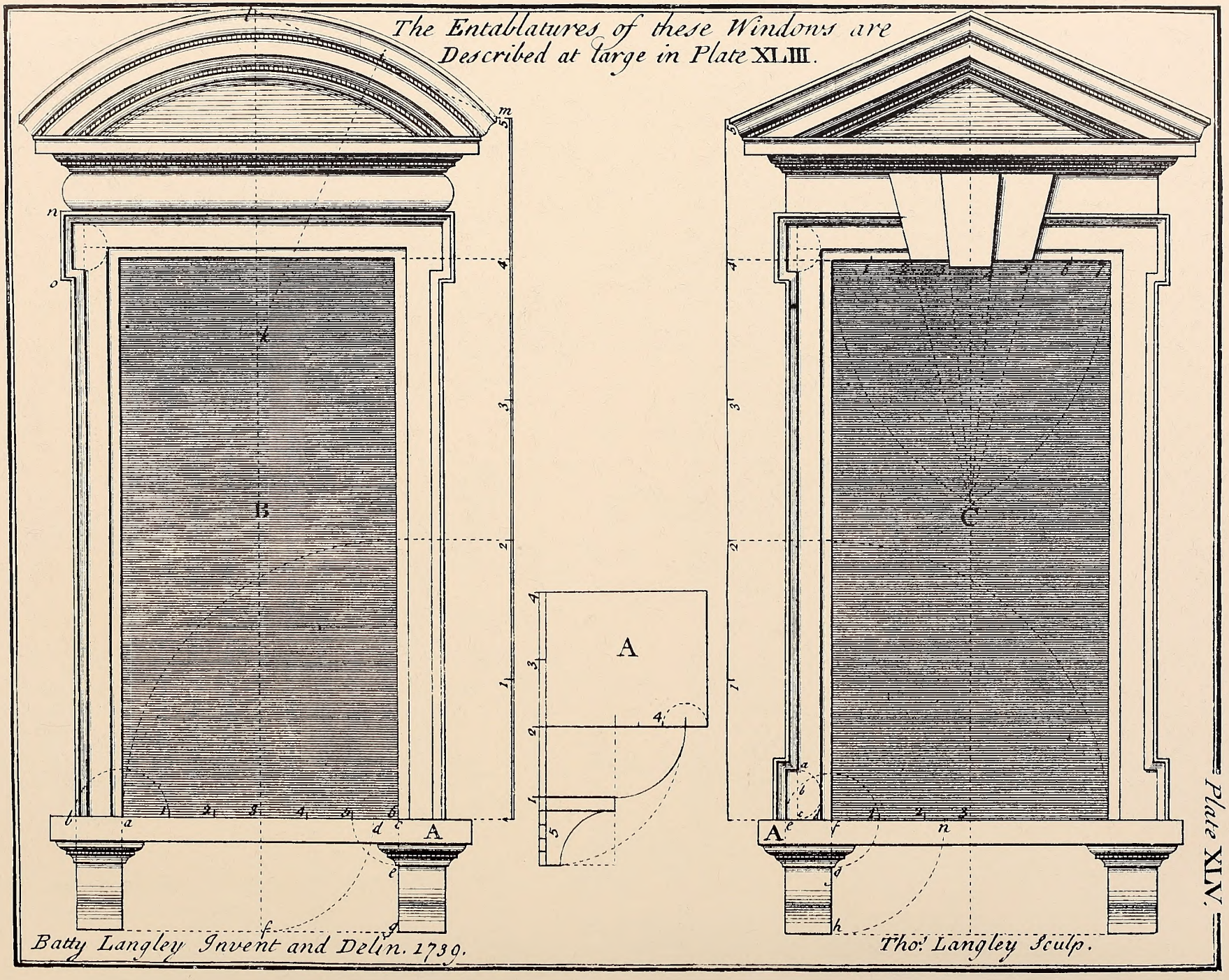
Batty Langley Invent & Delin. 1739.

This Cornice is described at large in Plate XLIII.



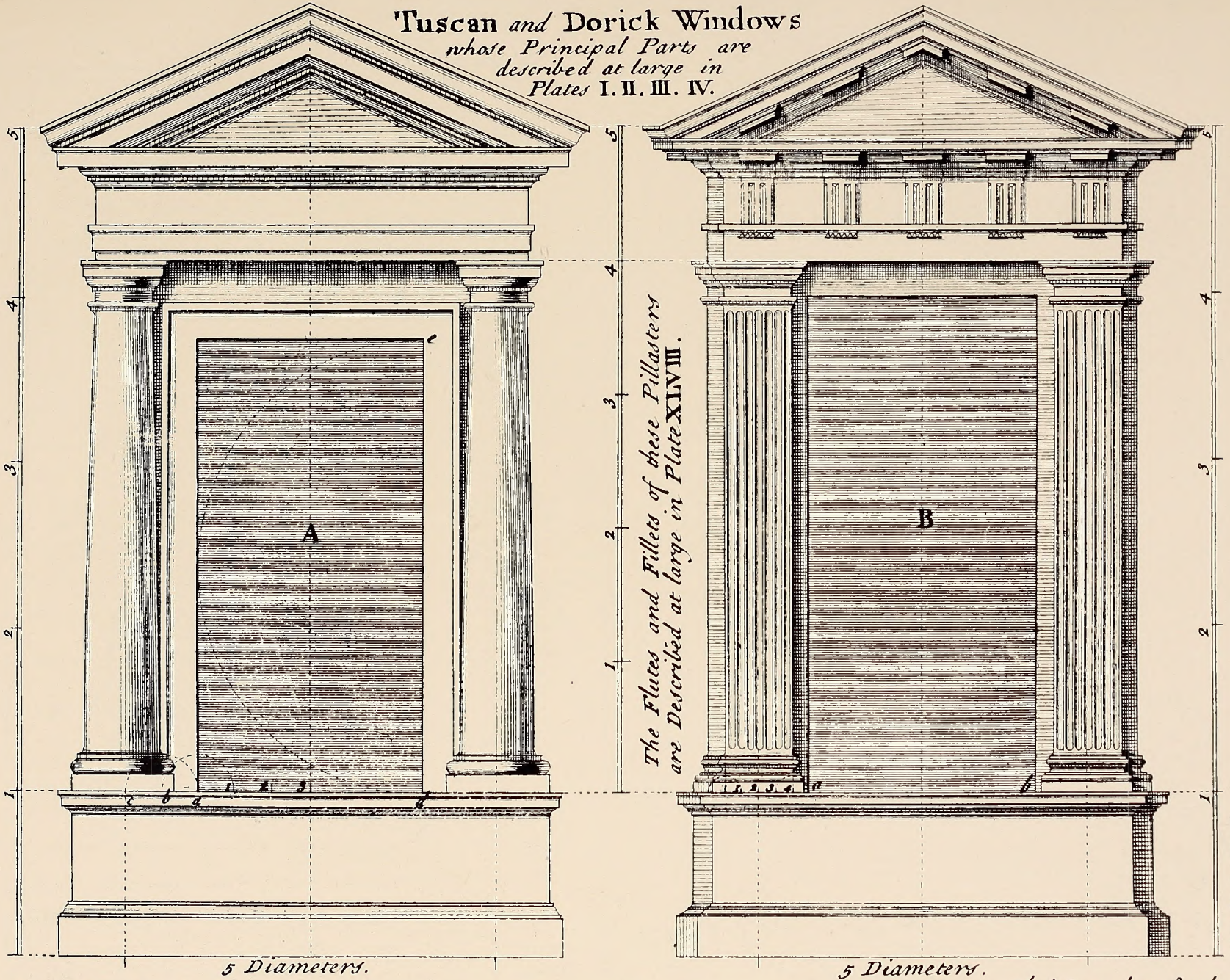
Thos. Langley Sculp.

Plate XLIV.


The Entablatures of these Windows are
Described at large in Plate XLIII.
Batty Langley Invent and Delin. 1739.
Thos. Langley Sculp.
Plate XLV.
A
B
C

Tuscan *and* Dorick Windows

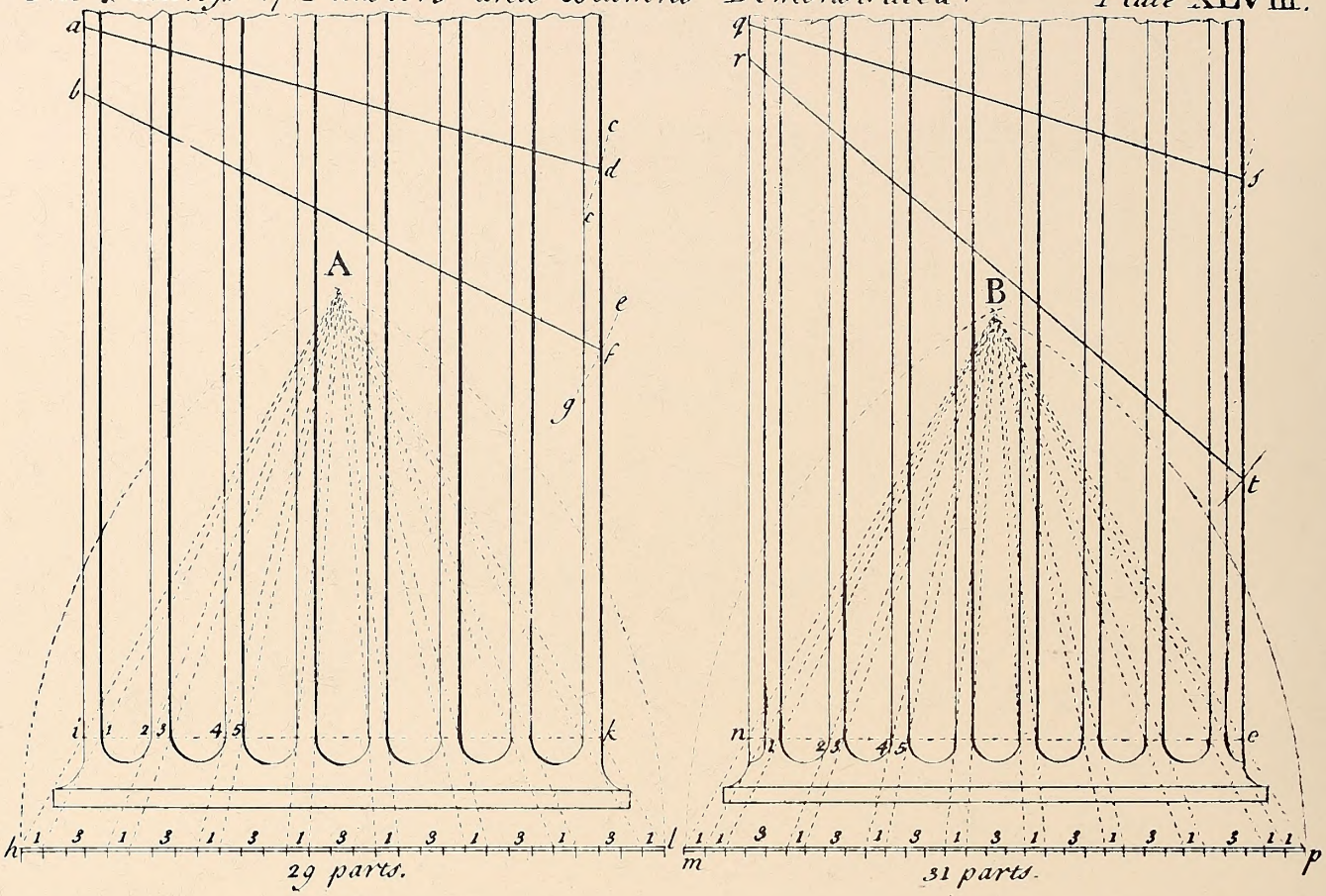
whose Principal Parts are described at large in Plates I. II. III. IV.

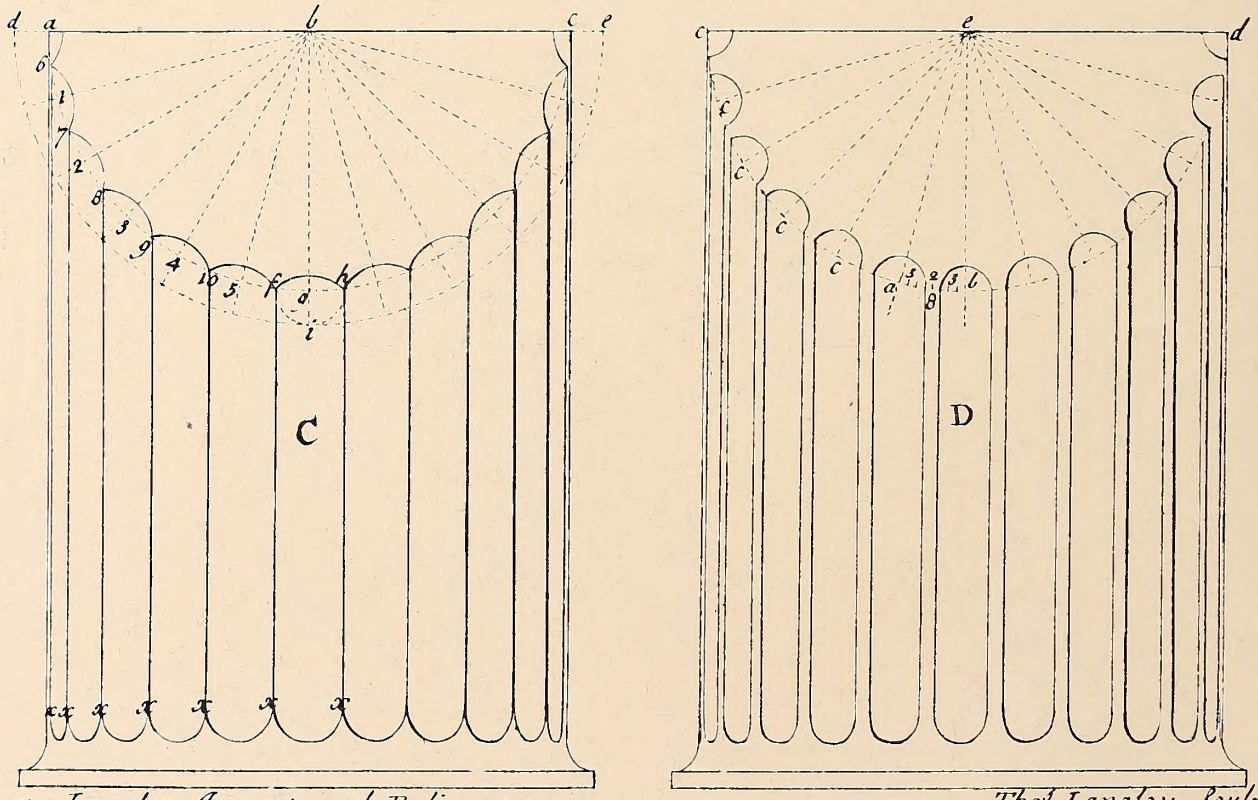


Batty Langley Invent and Delin. 1739.

Thos. Langley Sculp.

Plate XLVII.

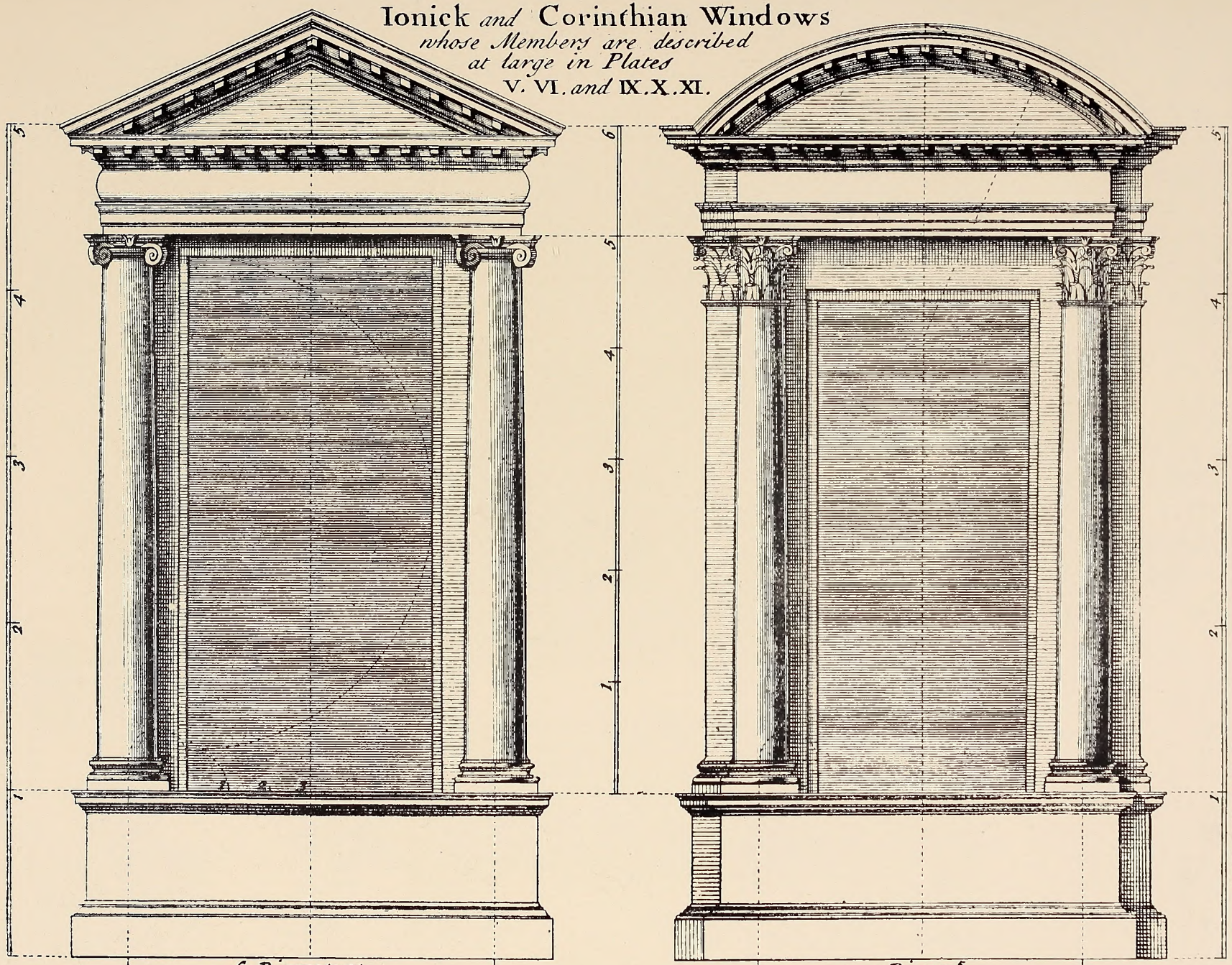




Batty Langley Invent and Delin 1739.

Thos Langley Sculp.

Ionick *and* Corinthian Windows
whose Members are described at large in Plates V. VI. *and* IX. X. XI.



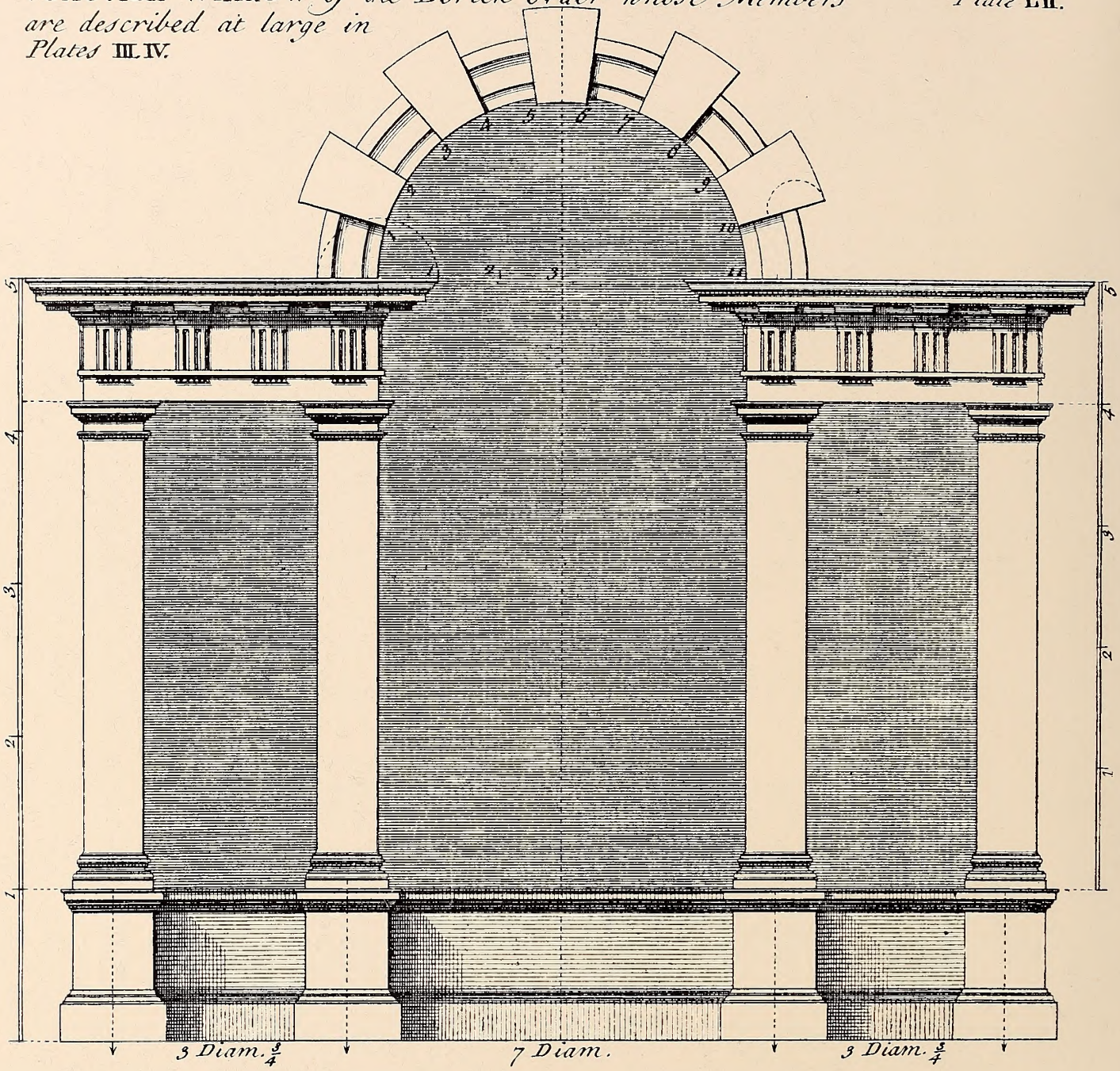
Batty Langley Invent and Delin.

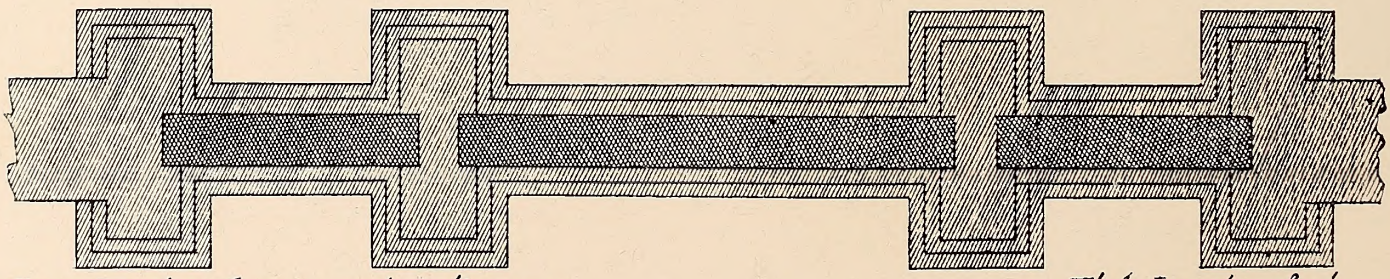
Thos. Langley Sculp.

Plate XLIX.

Venetian Window *of the Dorick Order whose Members are described at large in Plates* III. IV.

Plate LII.



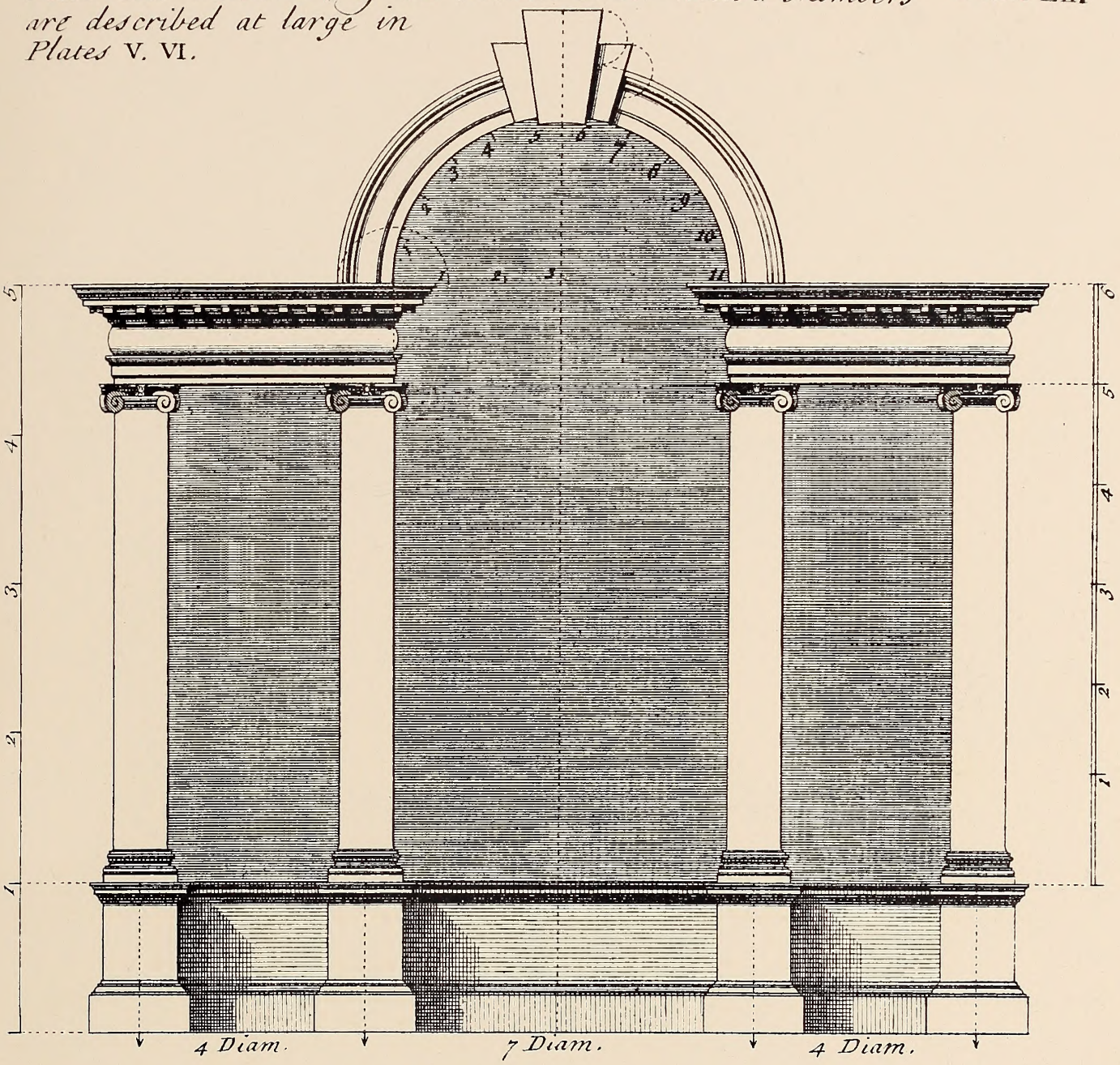


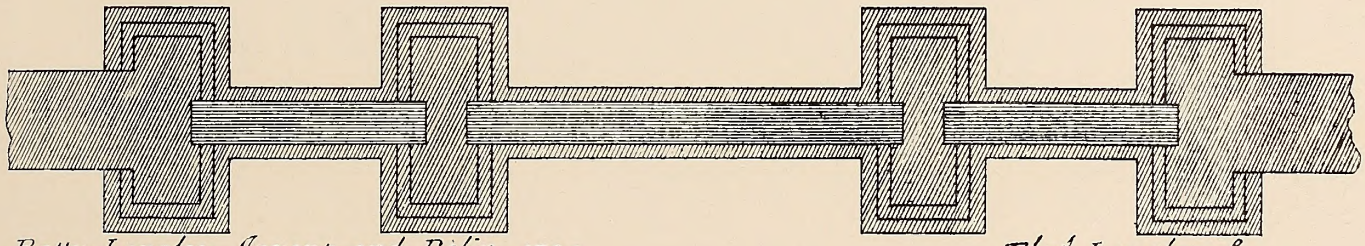
Batty Langley Invent and Delin. 1739.

Thos. Langley Sculp.

Venetian Windows *of the Ionick Order whose Members are described at large in Plates* V. VI.

Plate LIII

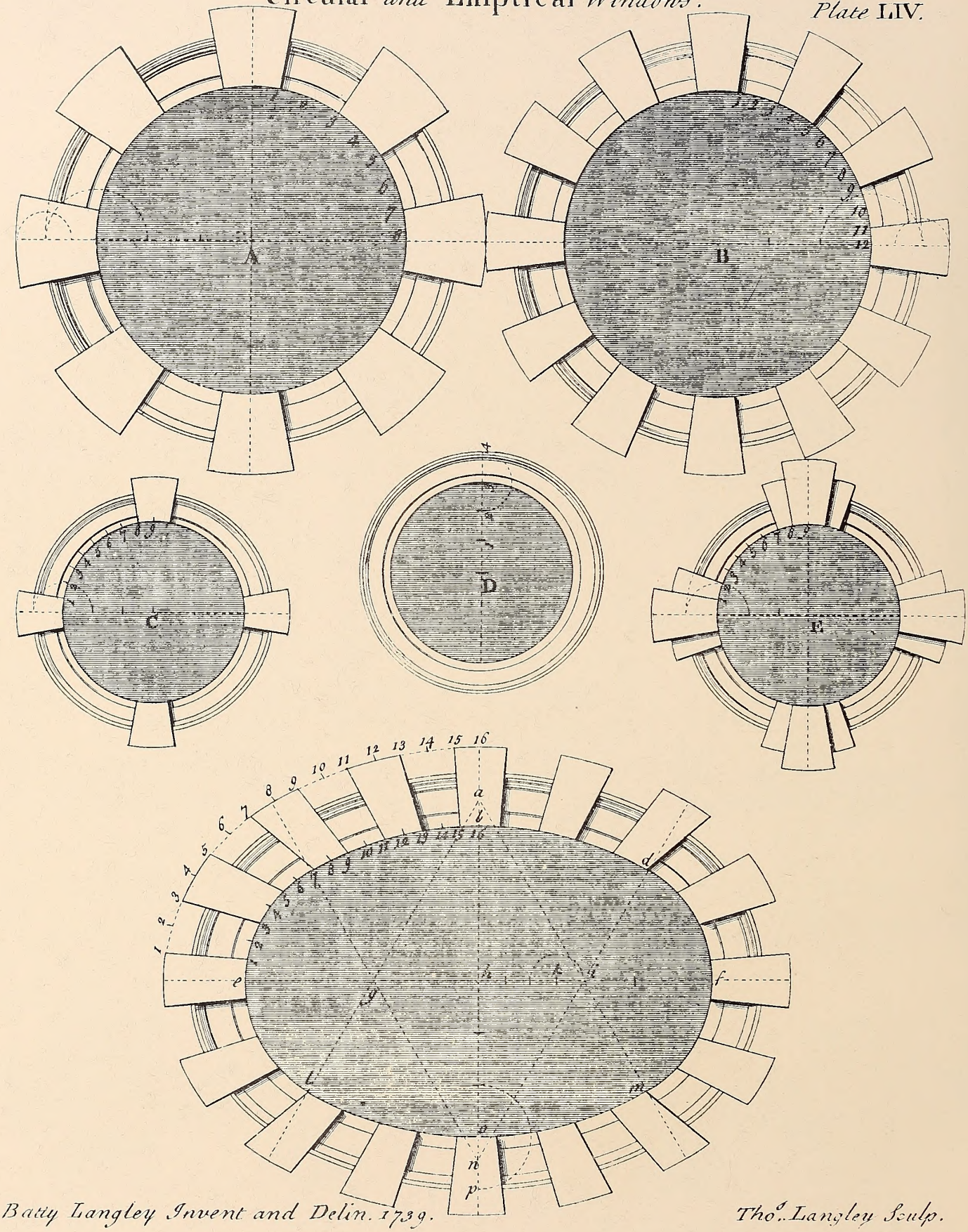




Batty Langley Invent and Delin. 1739. *Thos. Langley. f*

Circular *and* Elliptical *Windows.*

Plate LIV.

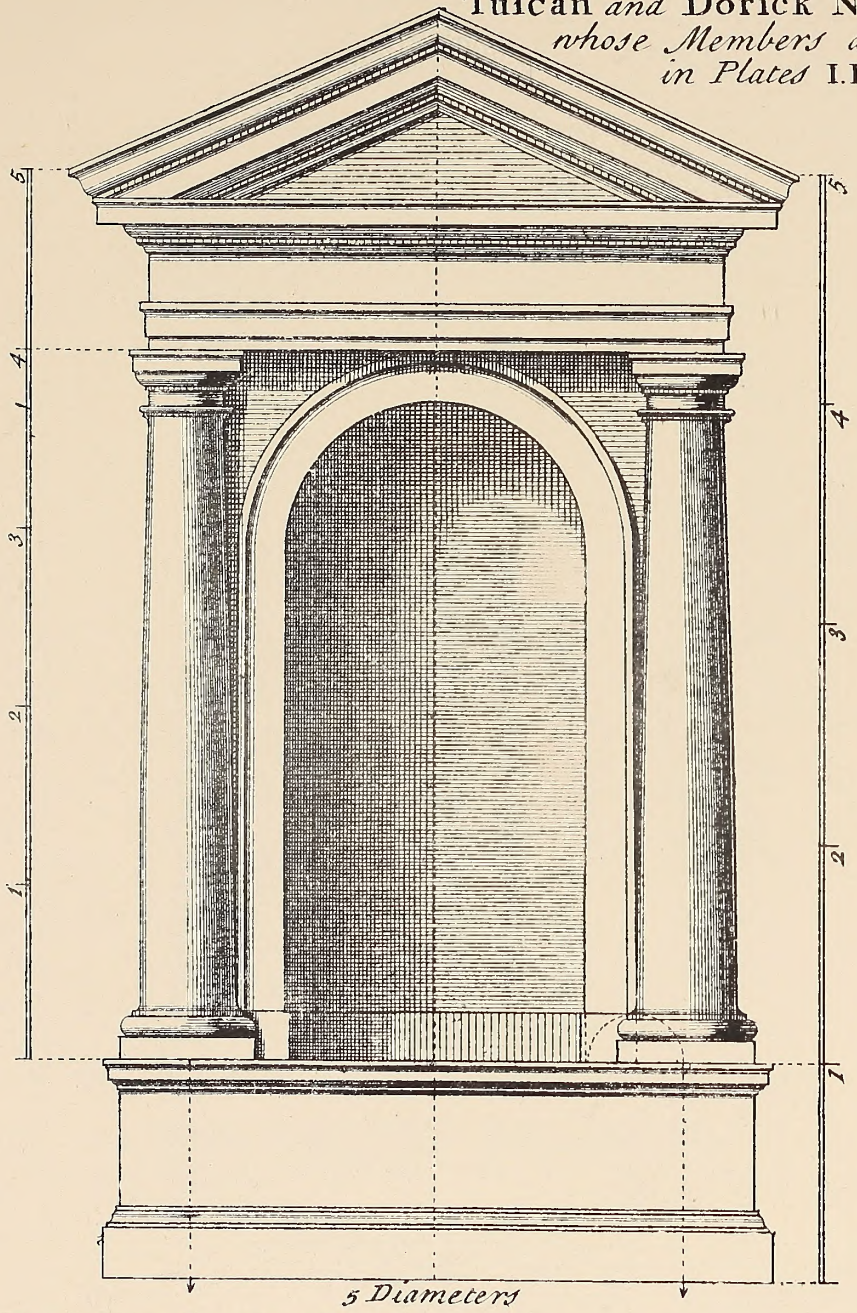


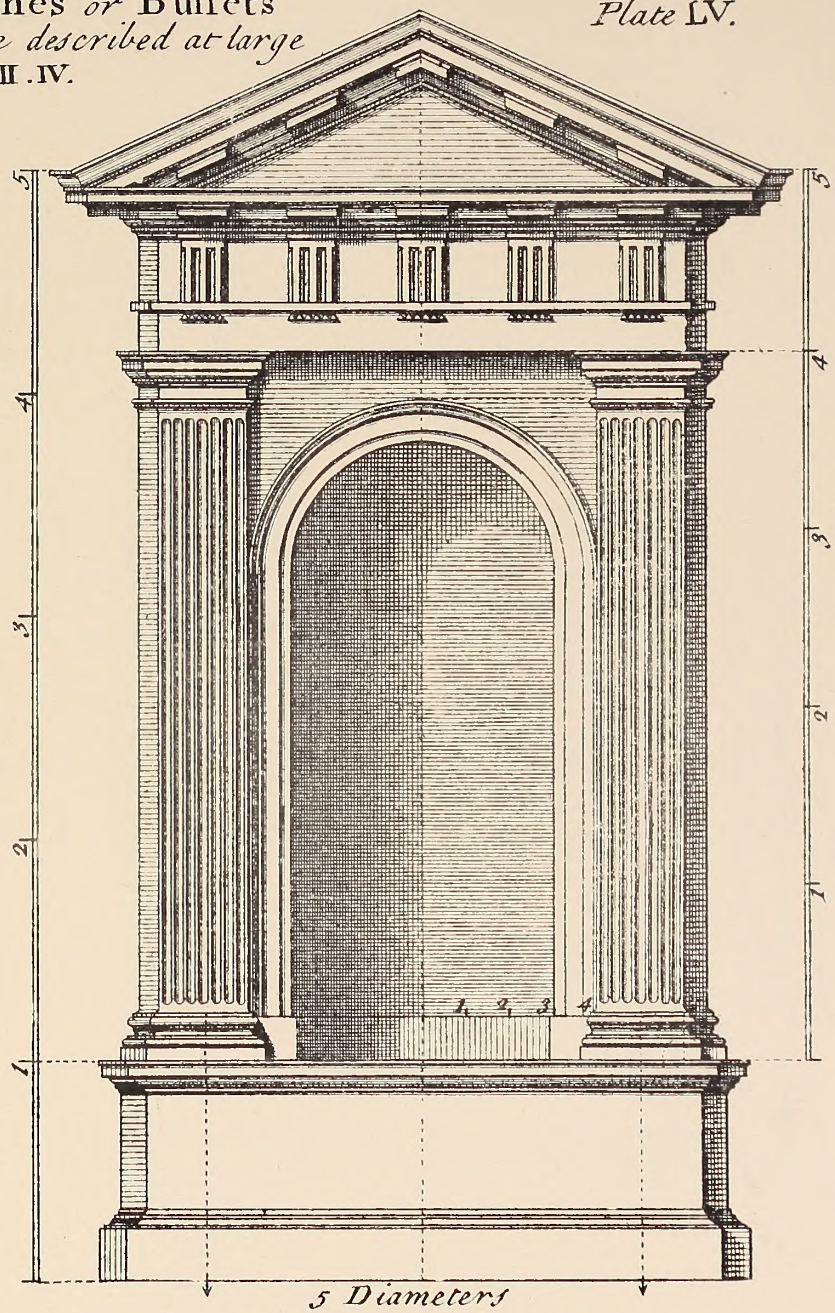
Batty Langley Invent and Delin. 1739.

Thos. Langley Sculp.

Tuſcan *and* Dorick Niches *or* Buffets

whose Members are described at large in Plates I.II.III.IV.

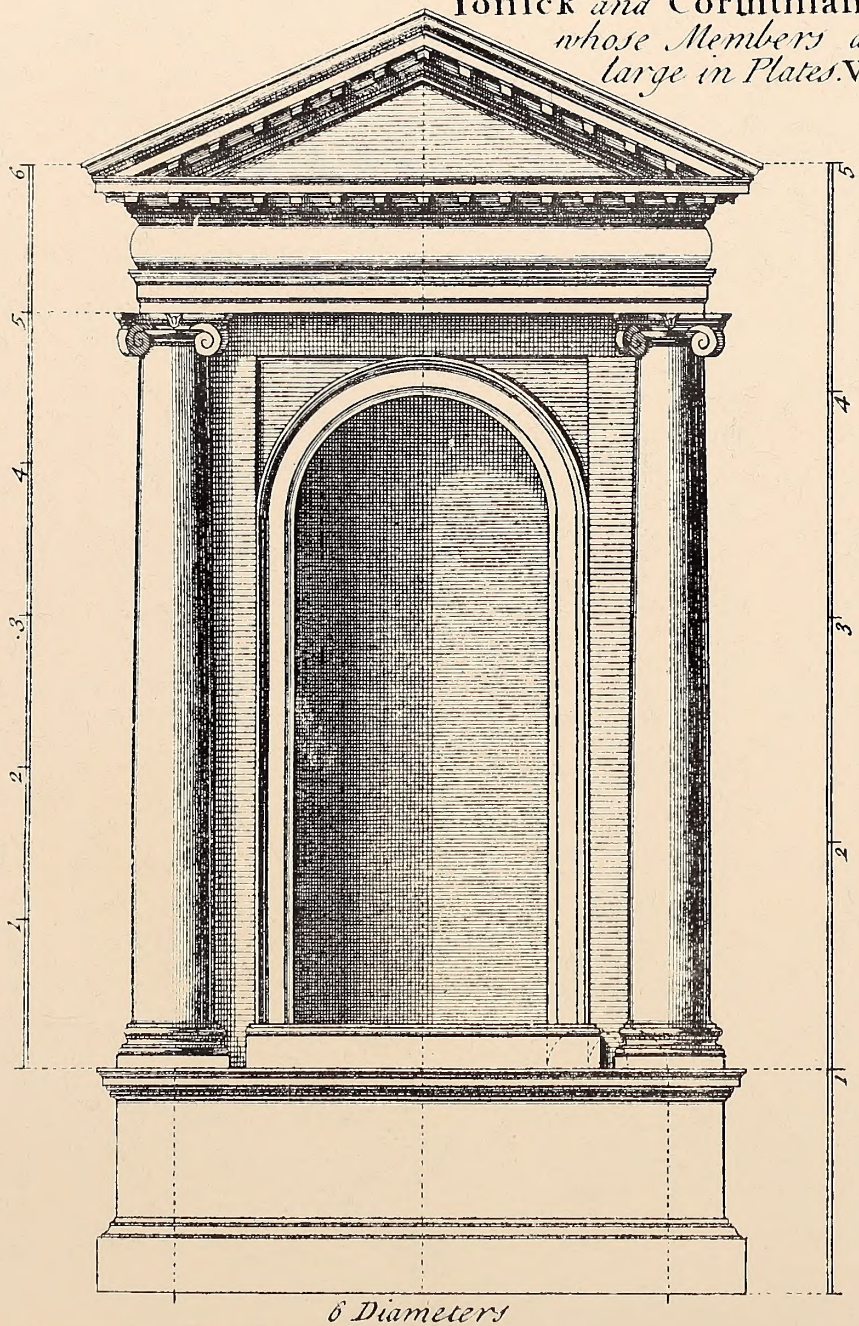




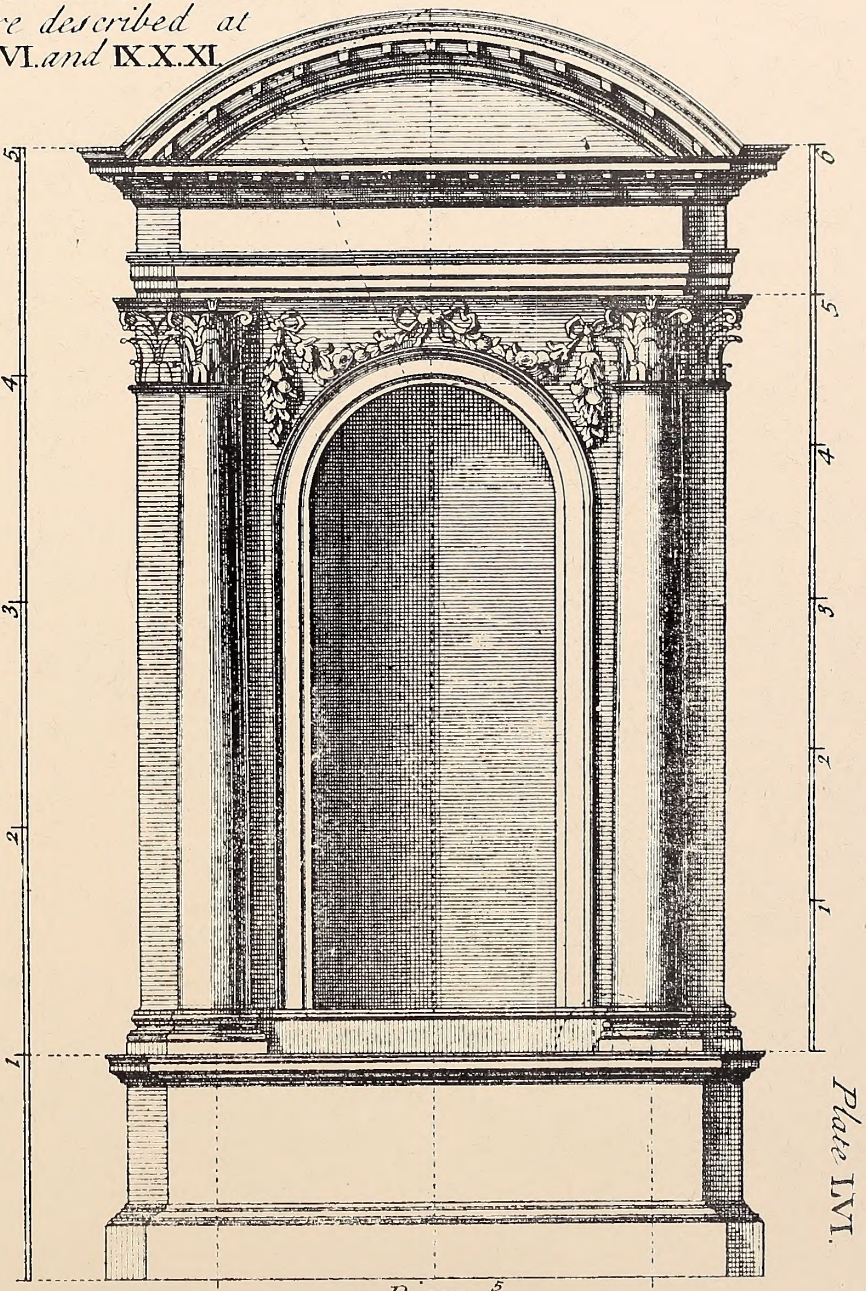
Batty Langley Invent and Delin. 1739.

Thos. Langley Sculp.

Ionick *and* Corinthian Niches *or* Buffets
whose Members are described at large in Plates V. VI. *and* IX. X. XI.



6 Diameters



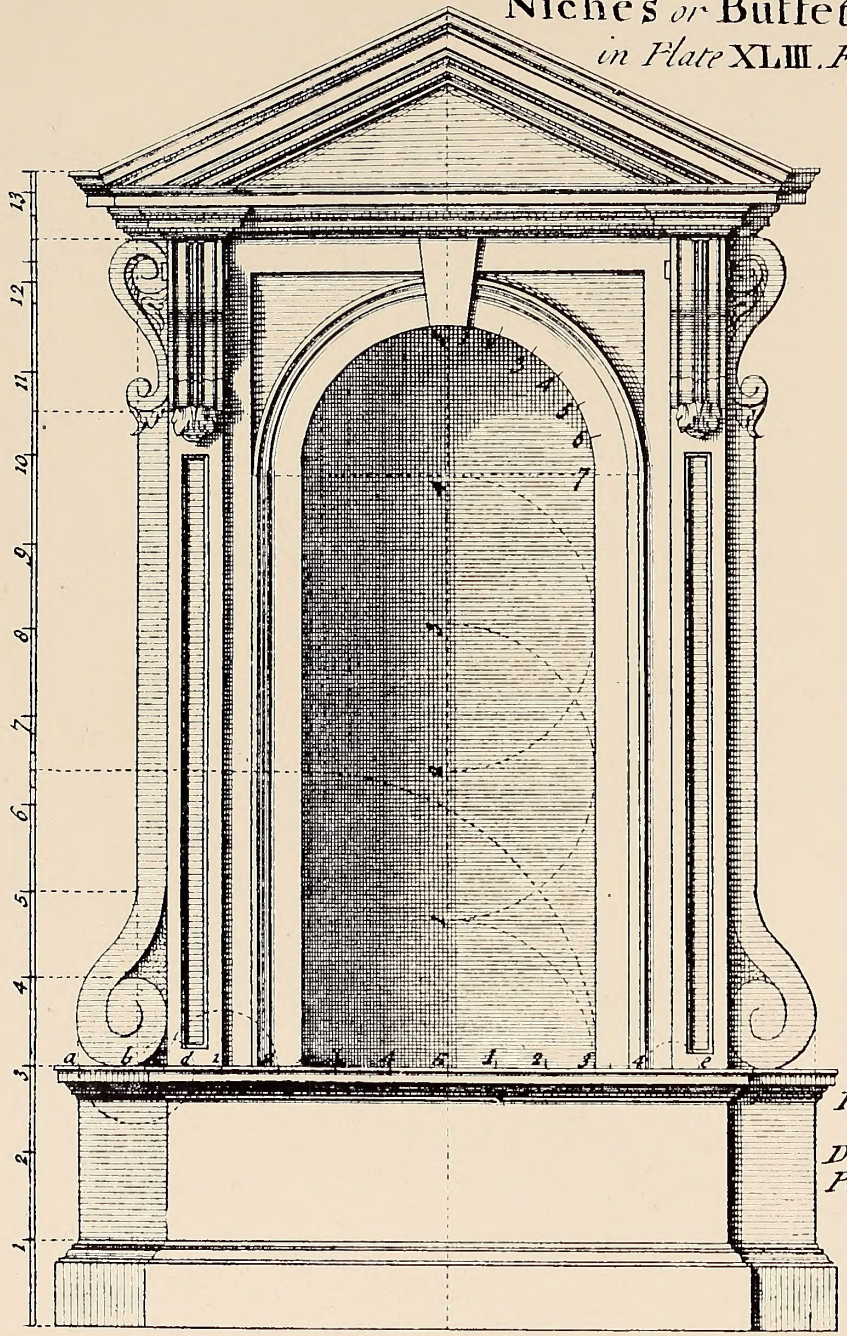
5 Diam. $\frac{5}{6}$

Batty Langley Invent and Delin. 1739.

Thos. Langley Sculp.

Plate LVI.

Niches or Buffetts *whose Cornices are described at large in Plate* XLIII. *Fig.* B. *and Trusses in Plate* XXXVIII.



These Pedestals are Dorick as in Plate III.

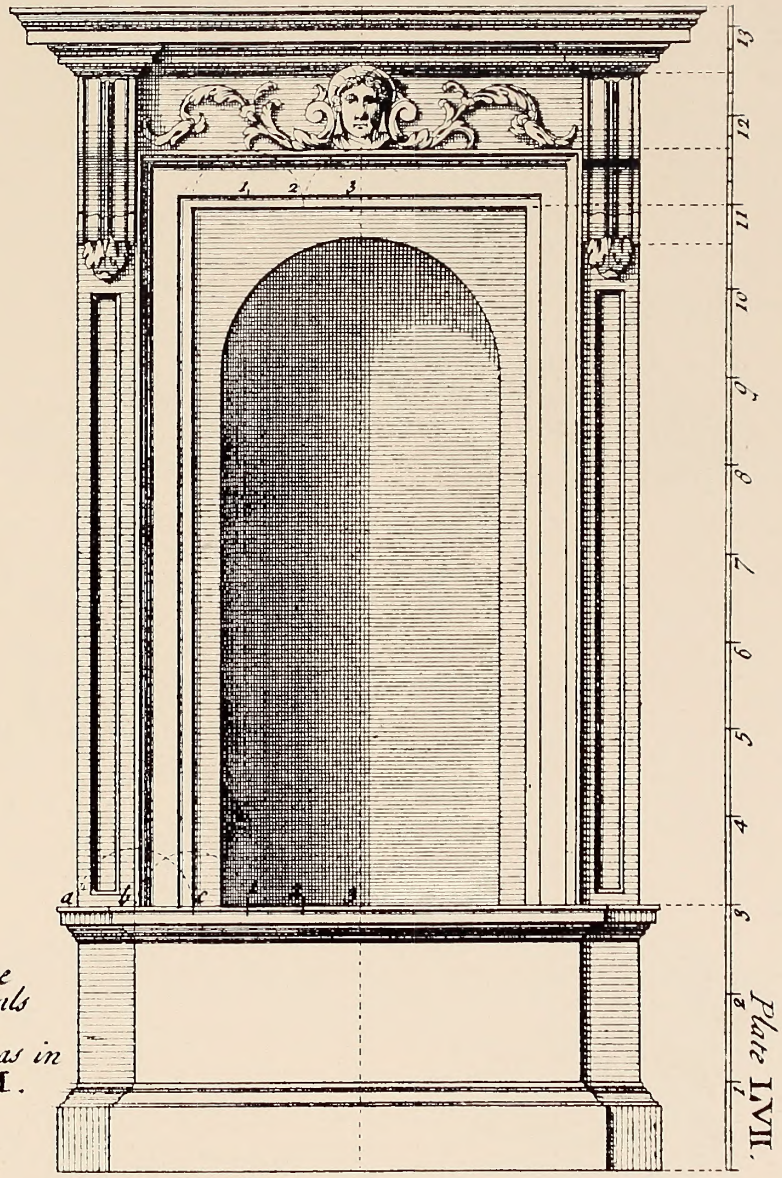
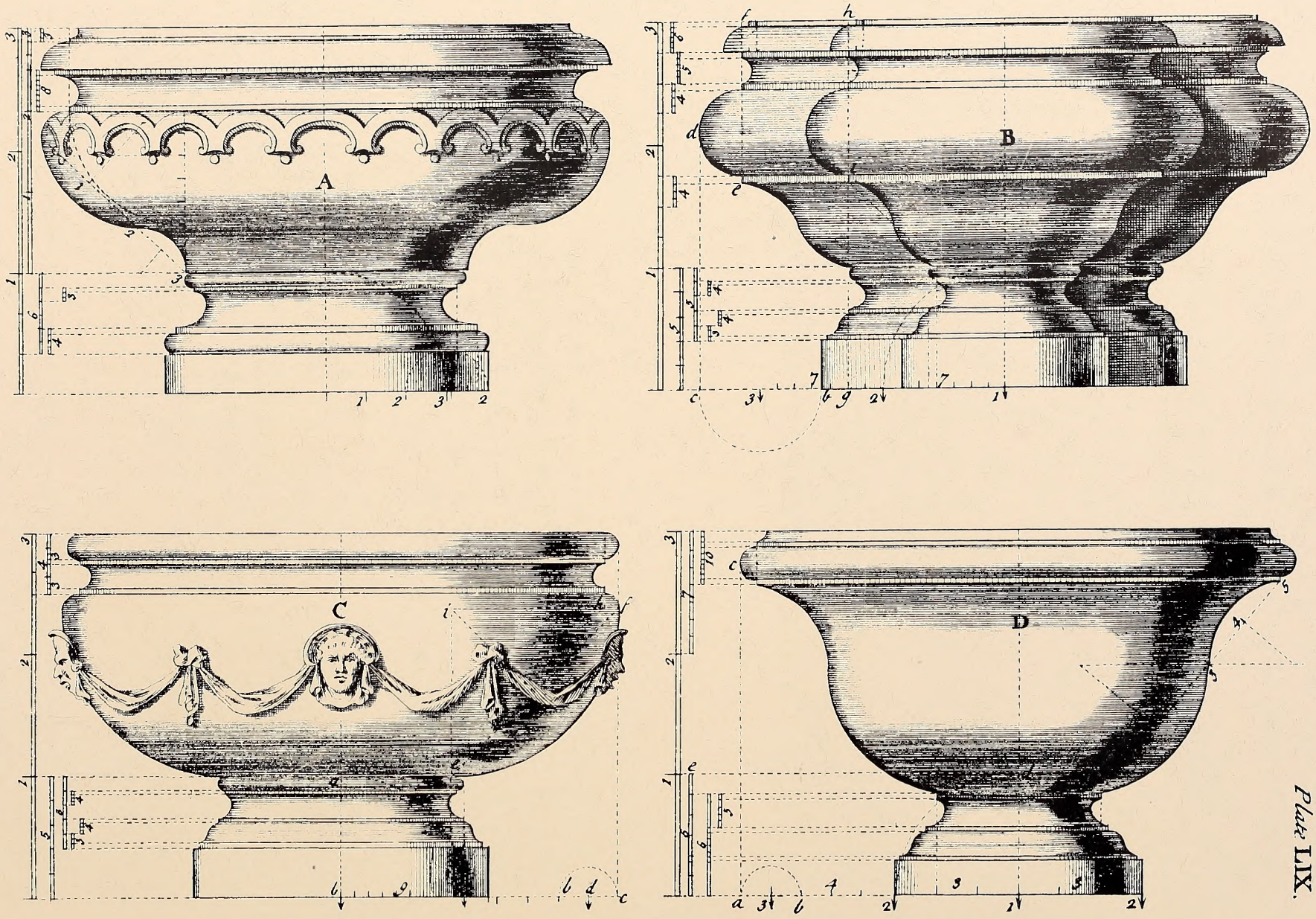


Plate LVII.

Batty Langley Invent and Delin. 1739.

Thos Langley Sculp.

Cisterns *for* Buffets.

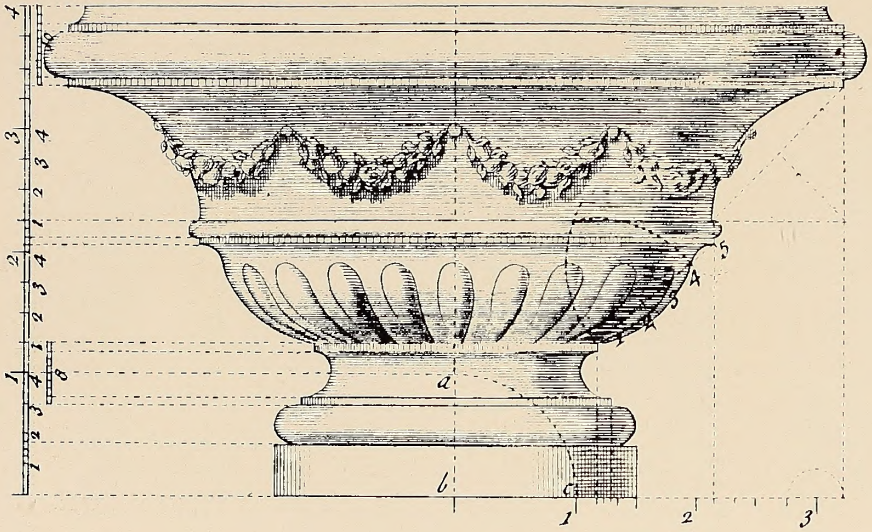


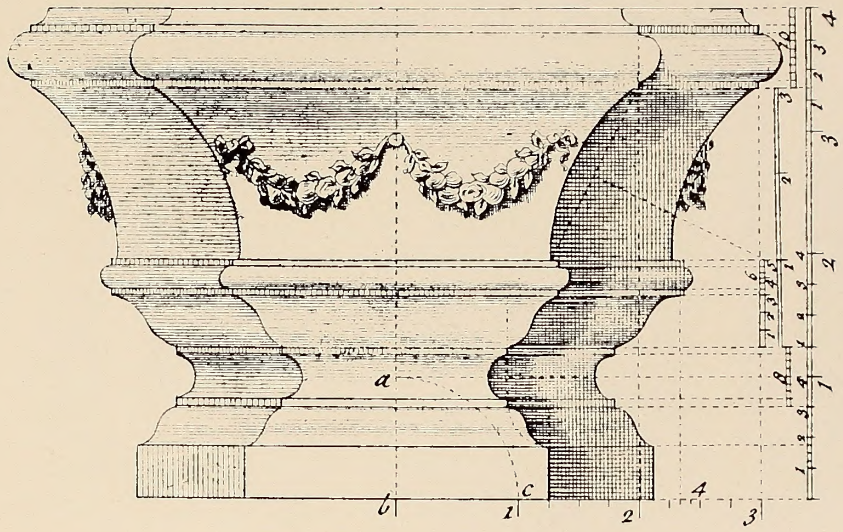
Batty Langley Invent and Delin. 1739.

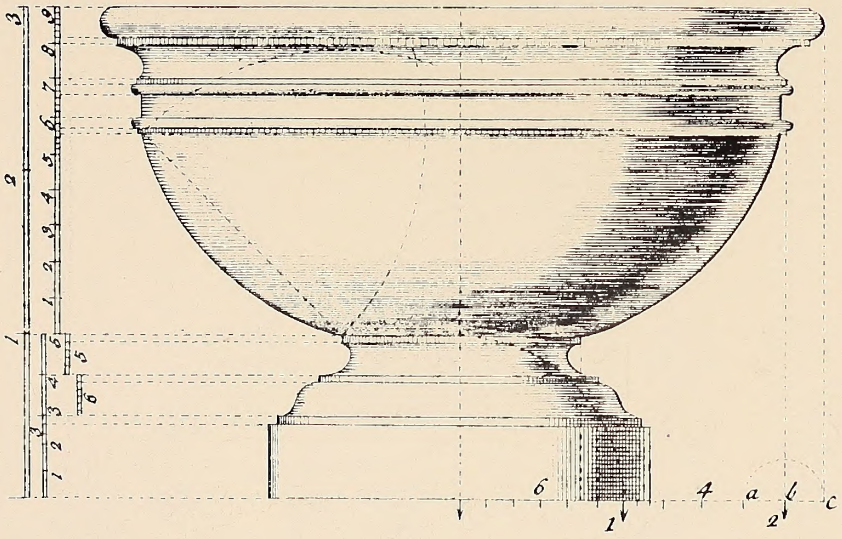
Thos. Langley Sculp.

Plate LIX.

Cisterns for Buffets.







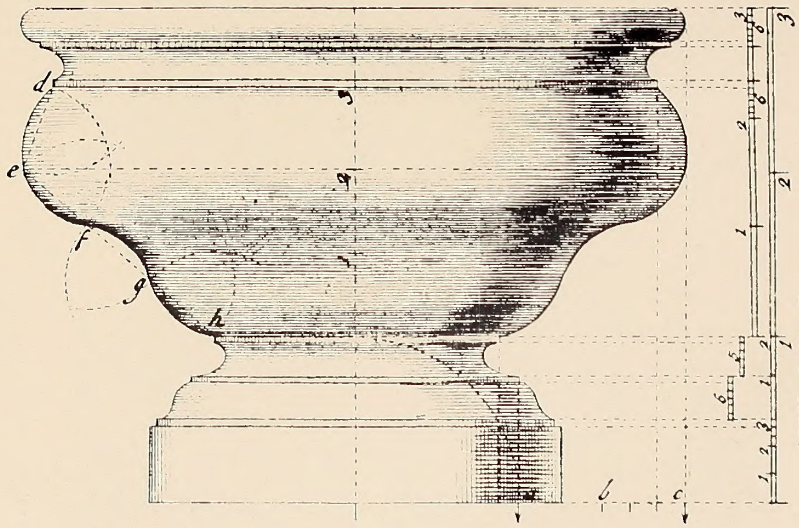


Plate LX.

Batty Langley Invent and Delin. 1739.

Thos. Langley Sculp.

Chimney Pieces

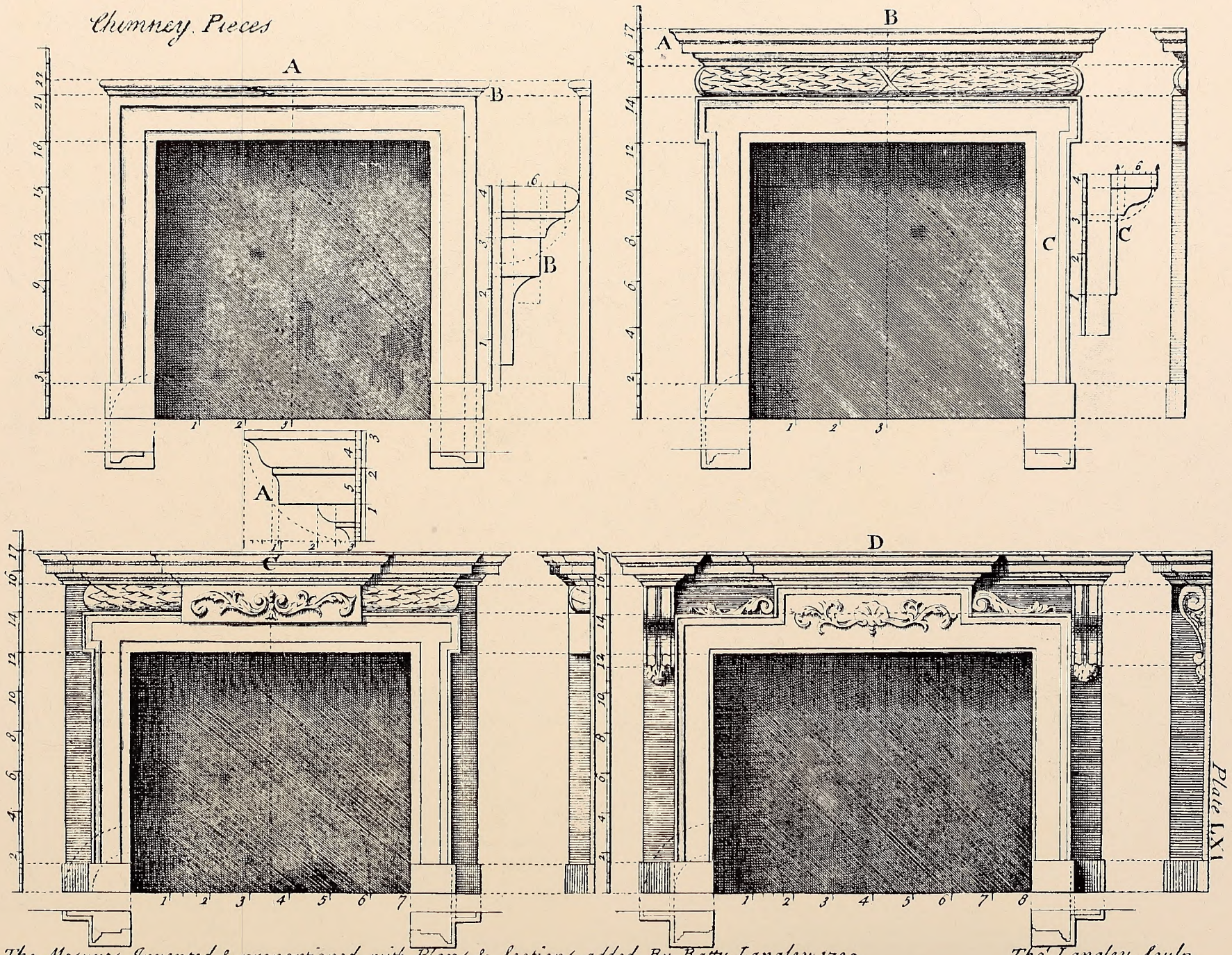
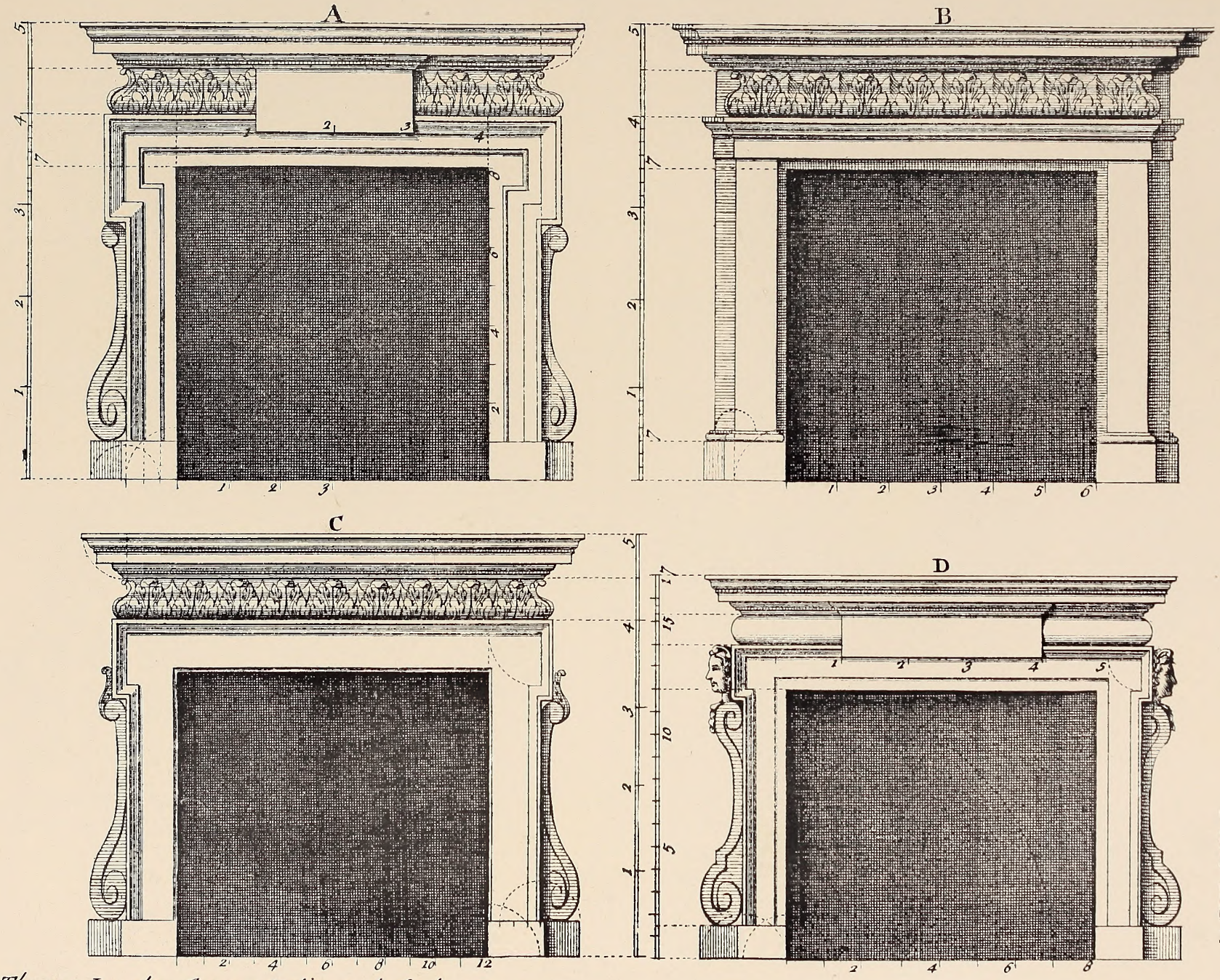


Plate LXI

The Mesures Invented, & proportioned, with Plans & Sections added. By Batty Langley 1739.

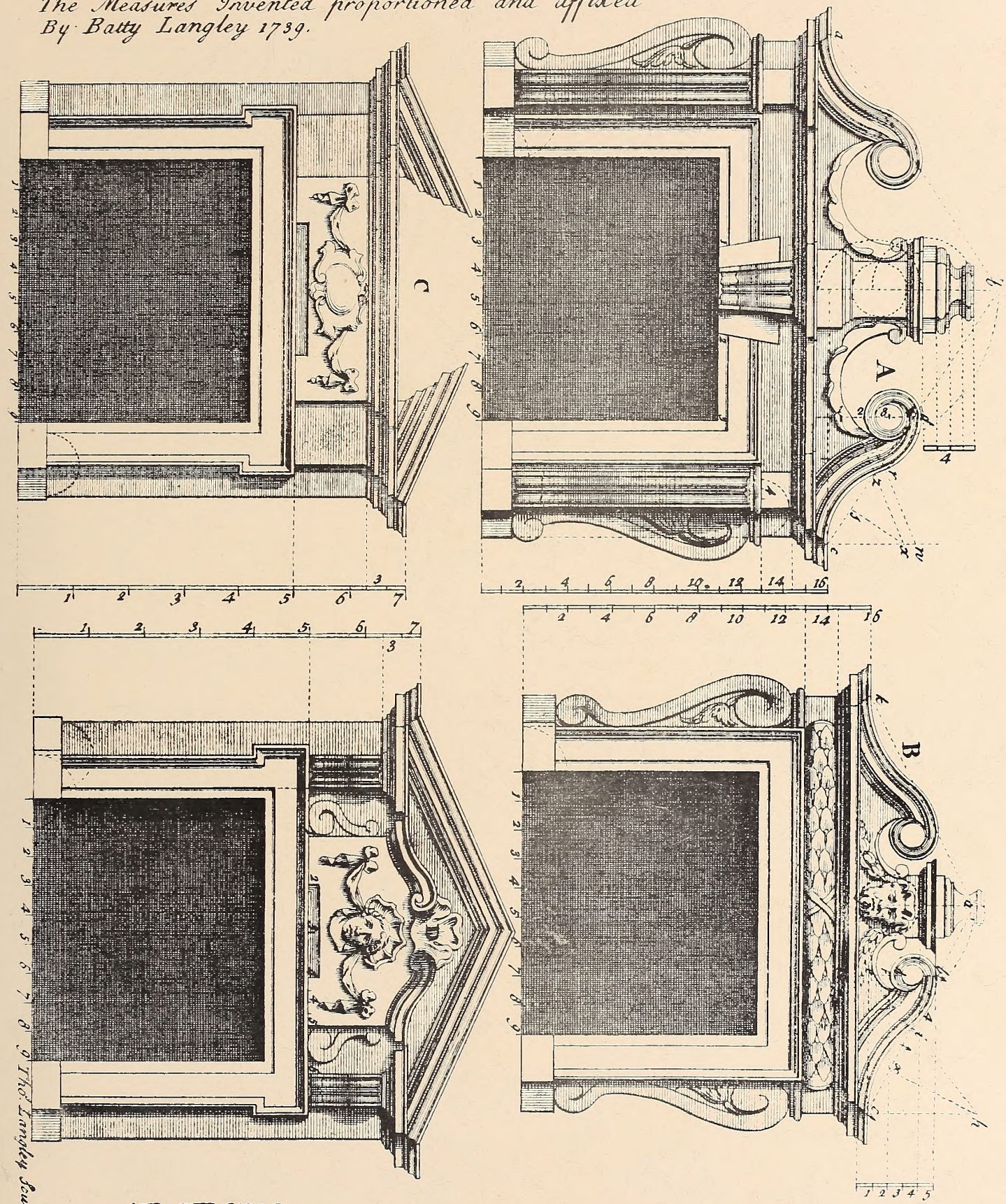
Tho: Langley Sculp.



Thomas Langley Invent. Delin. and Sculp. 1739.

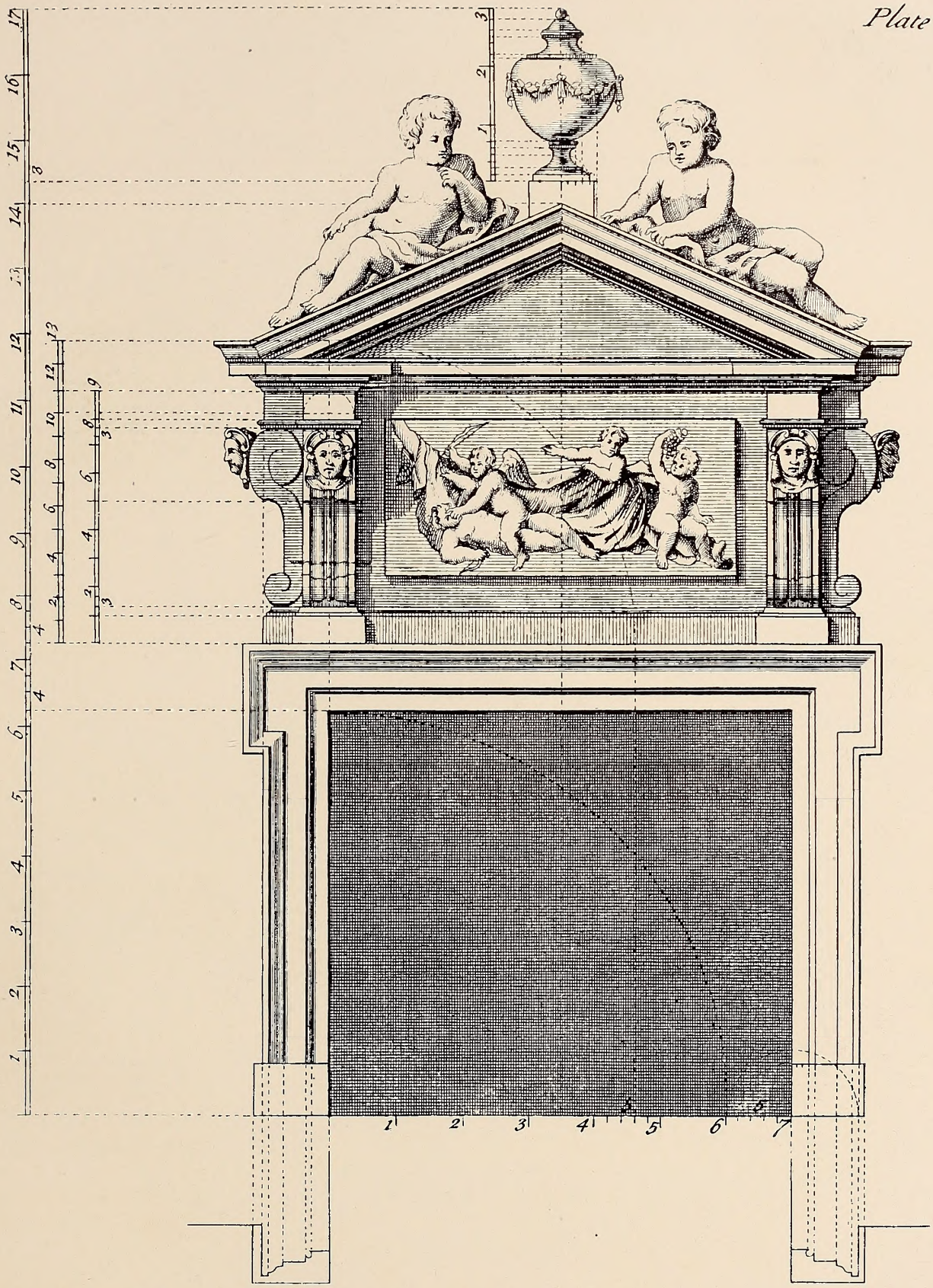
Plate LXV.

The Measures Invented proportioned and affixed
By Batty Langley 1739.



Thos. Langley Sculp.

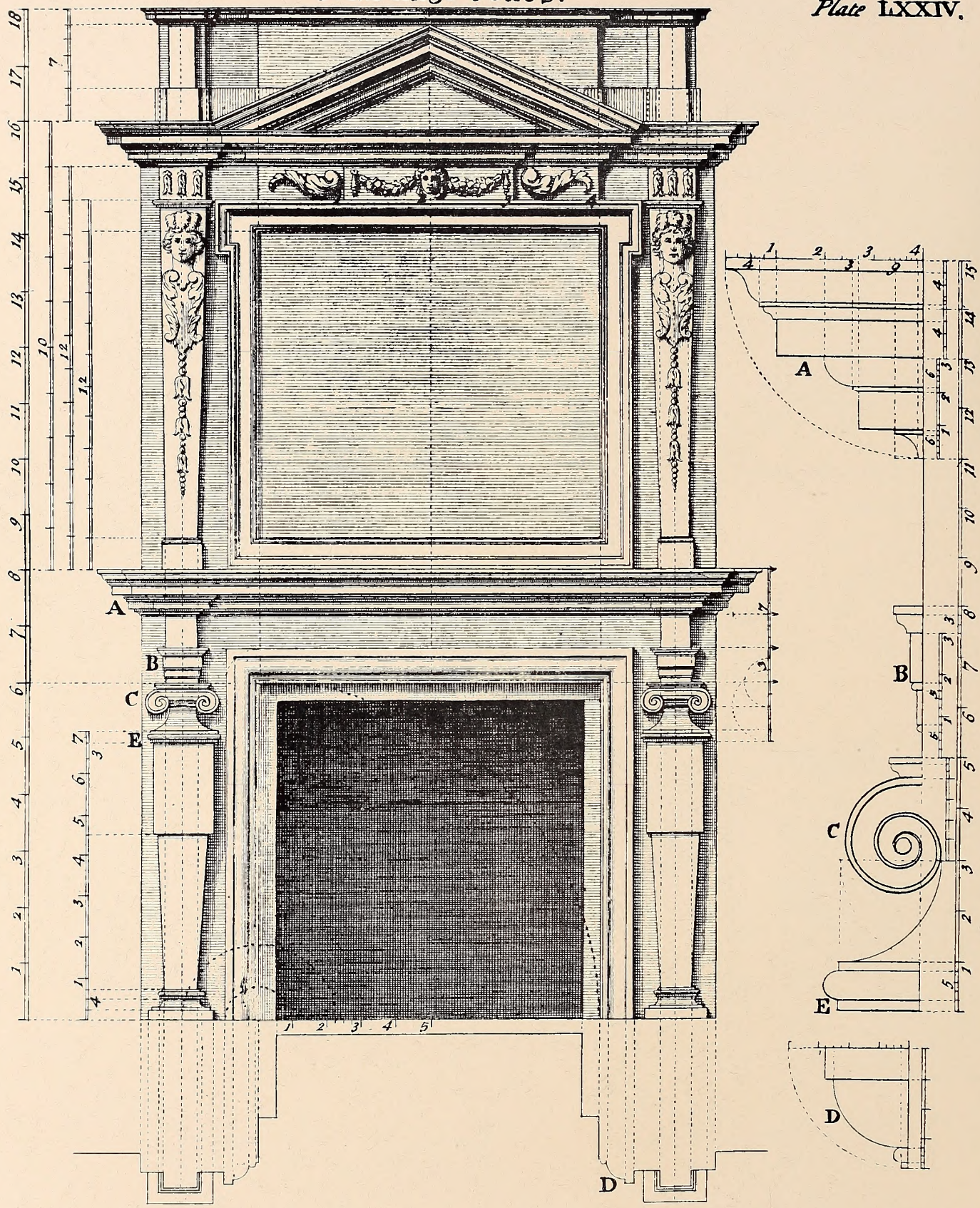
Plate LXVIII.



The Measures Invented proportioned and Affixed by Batty Langley 1739. Thos. Langley Sculp.

From Inigo Jones.

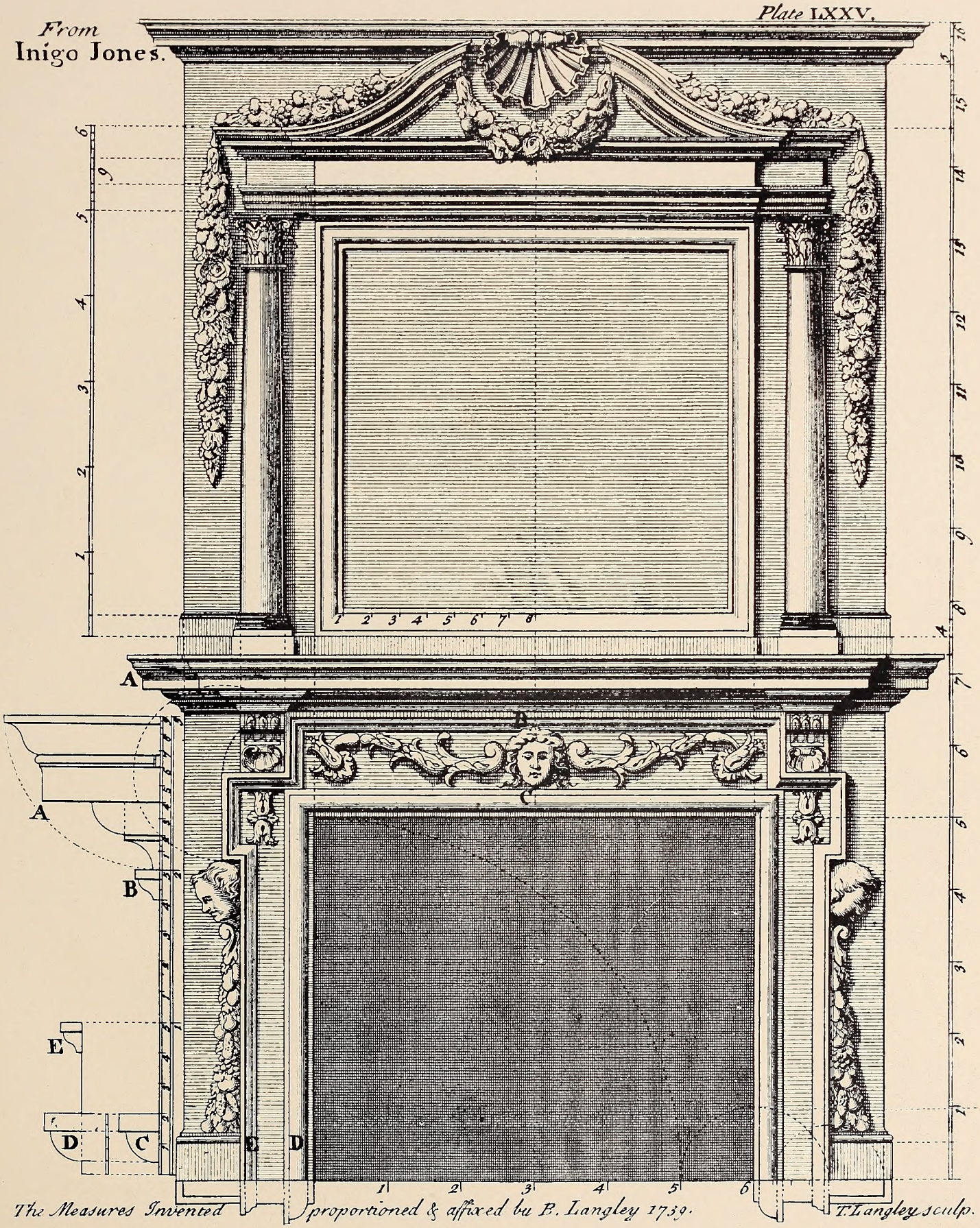
Plate LXXIV.



The Measures Invented proportioned & affixed by Batty Langley.

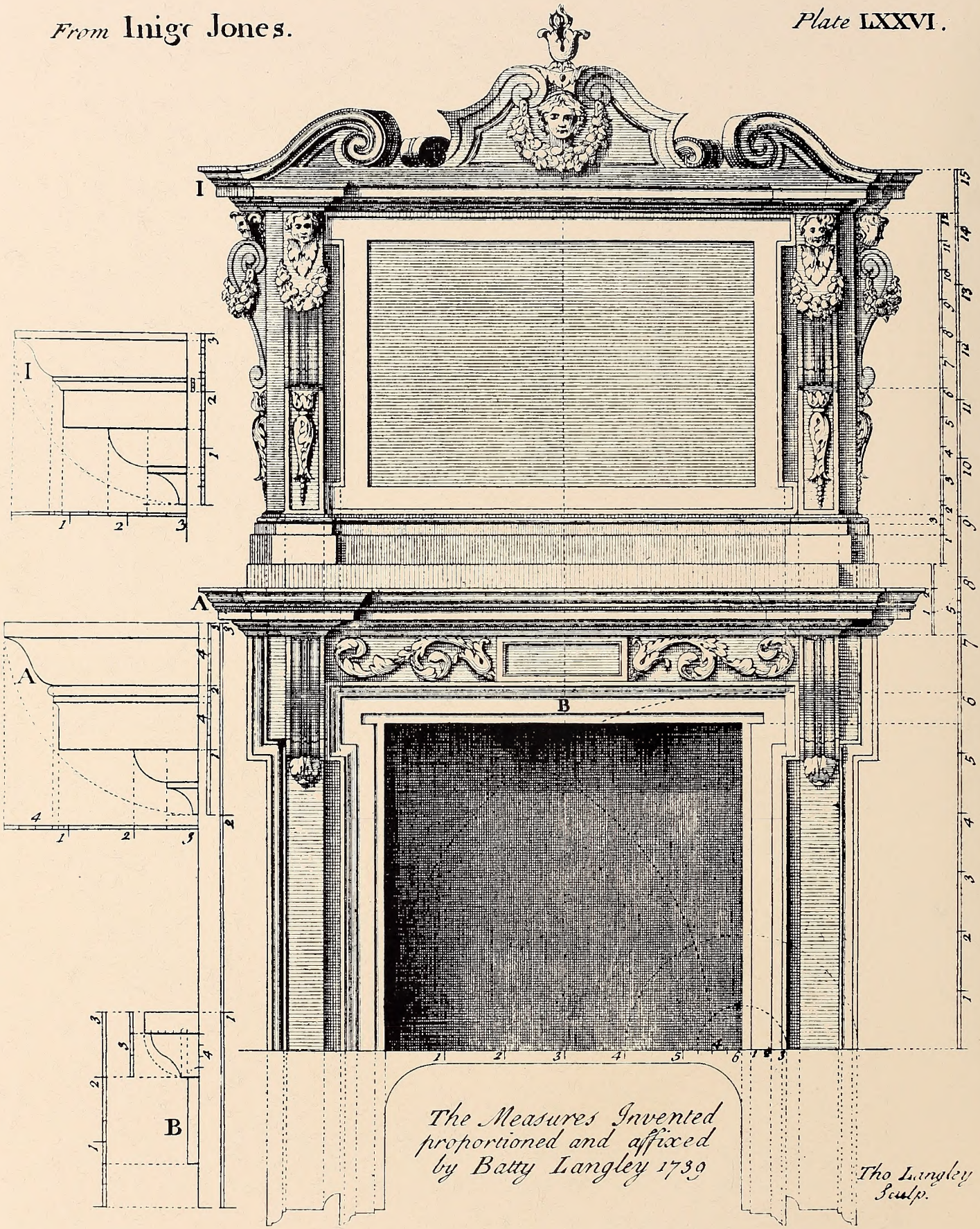
Thos. Langley Delin. & Sculp.

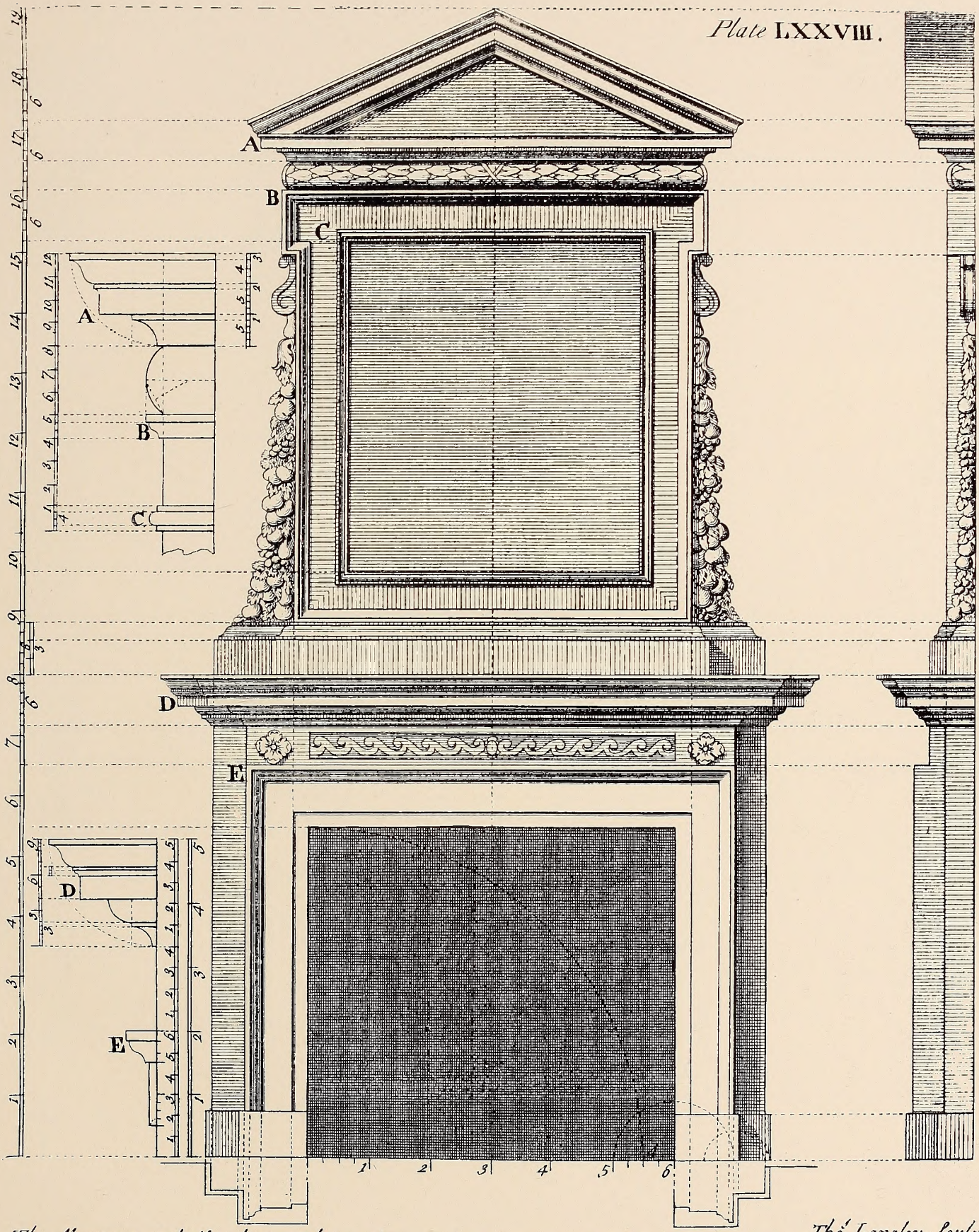
From
Inigo Jones.



The Measures Invented proportioned & affixed by B. Langley 1739. *T. Langley sculp.*

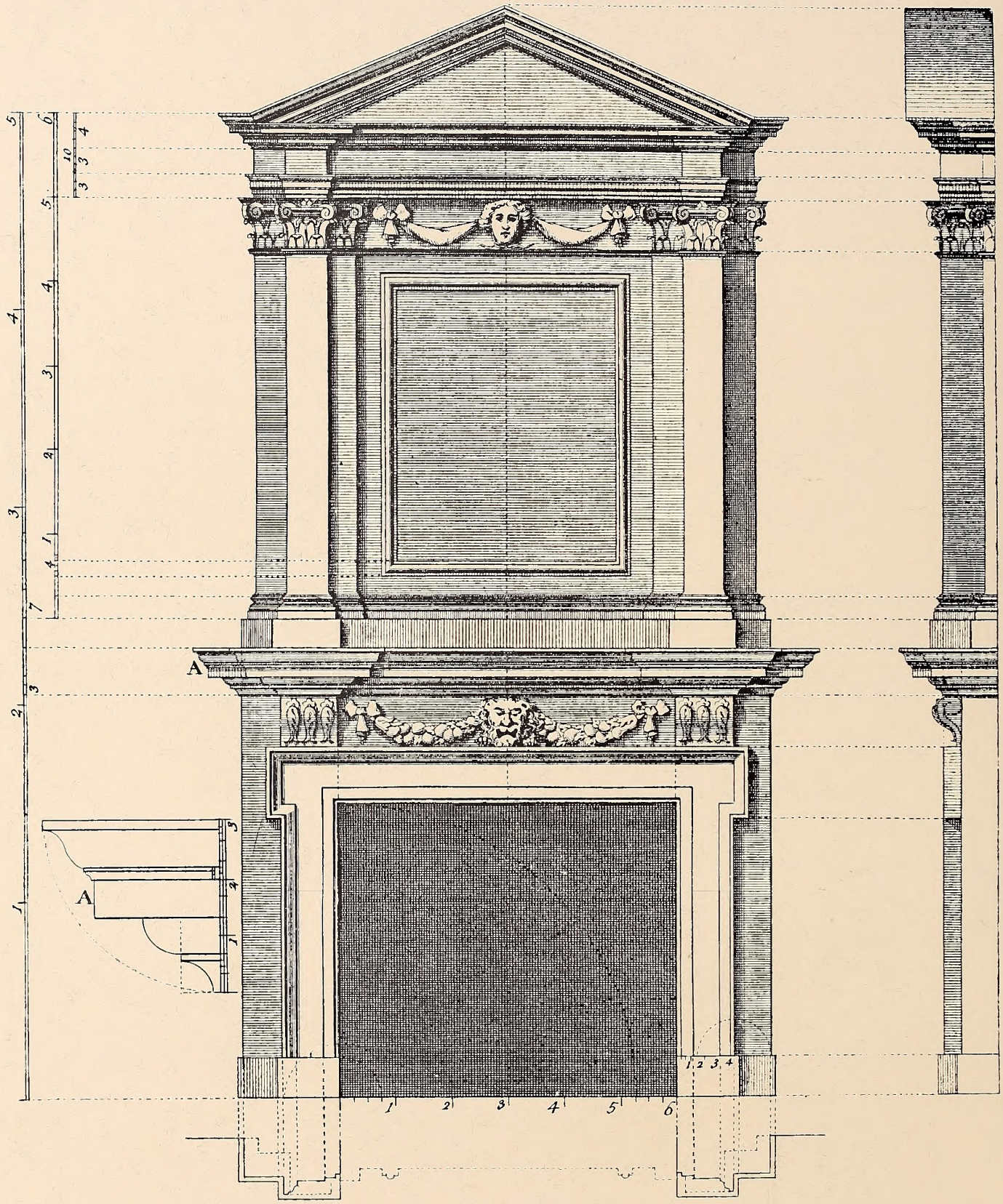
From Inigo Jones. *Plate* LXXVI.



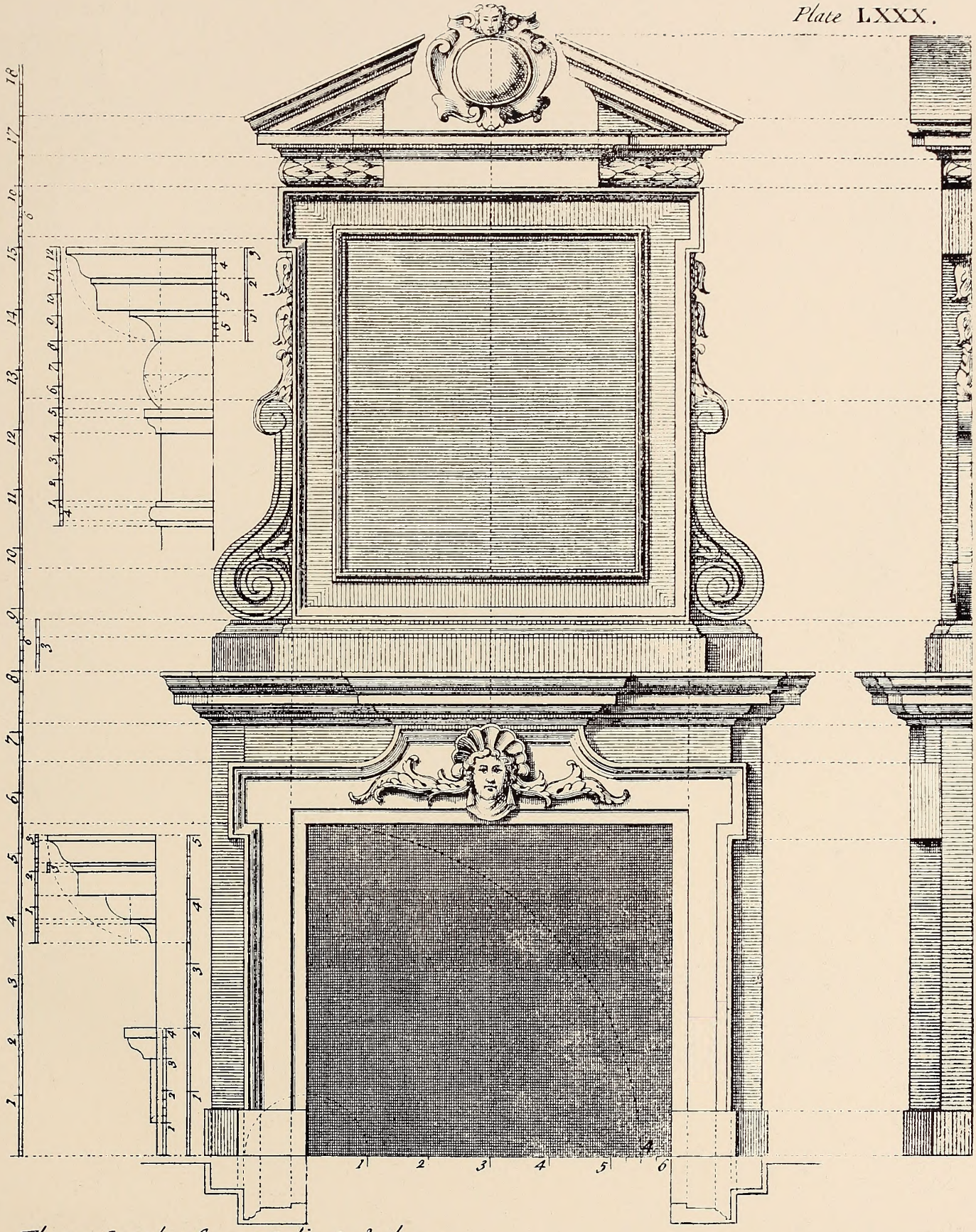


The Measures and Members at large Invented and proportioned by Batty Langley 1739.

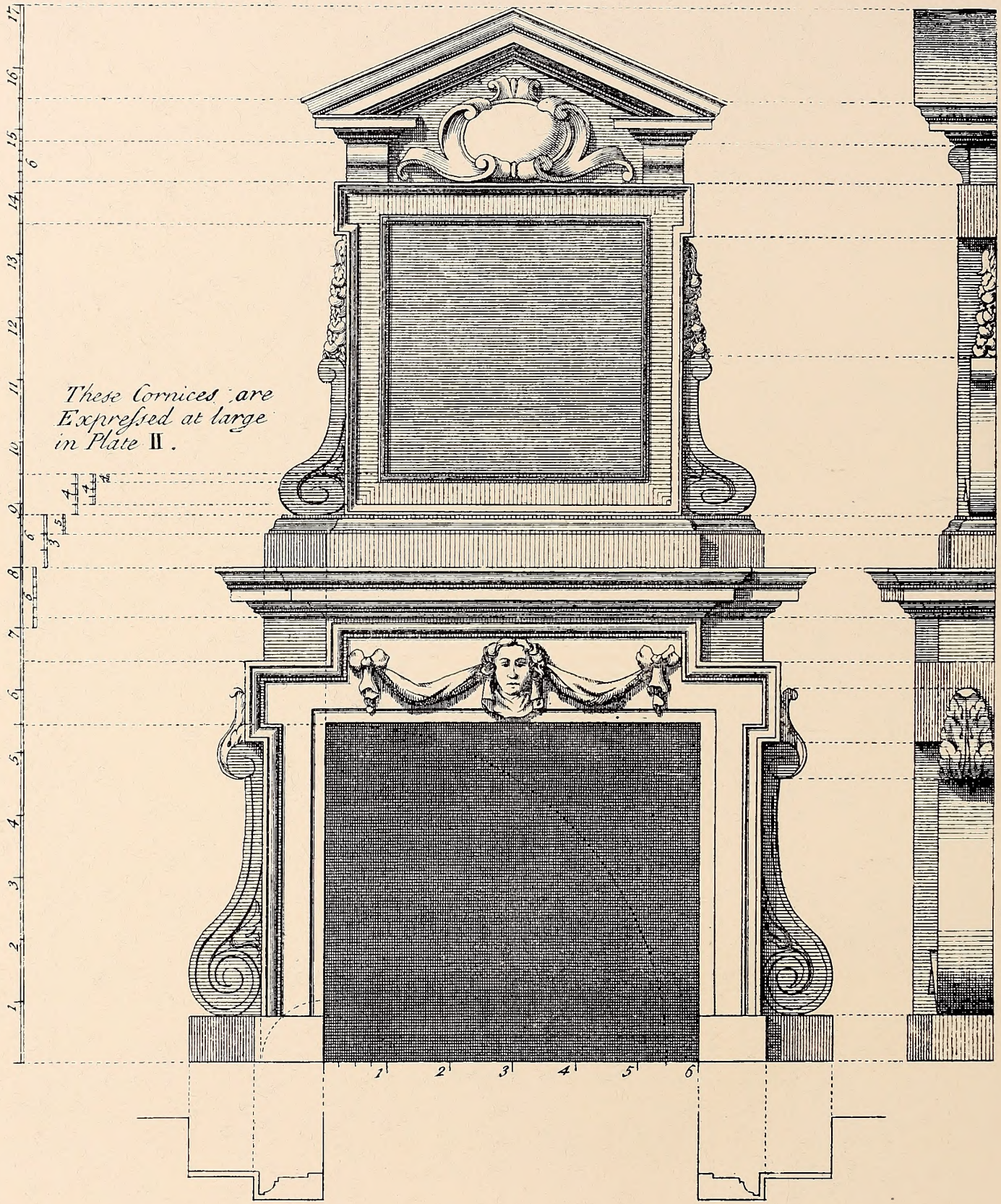
Thó. Langley Sculp.



The Measures Invented proportioned and affixed By Batty Langley 1739. *Thos. Langley Sculp.*

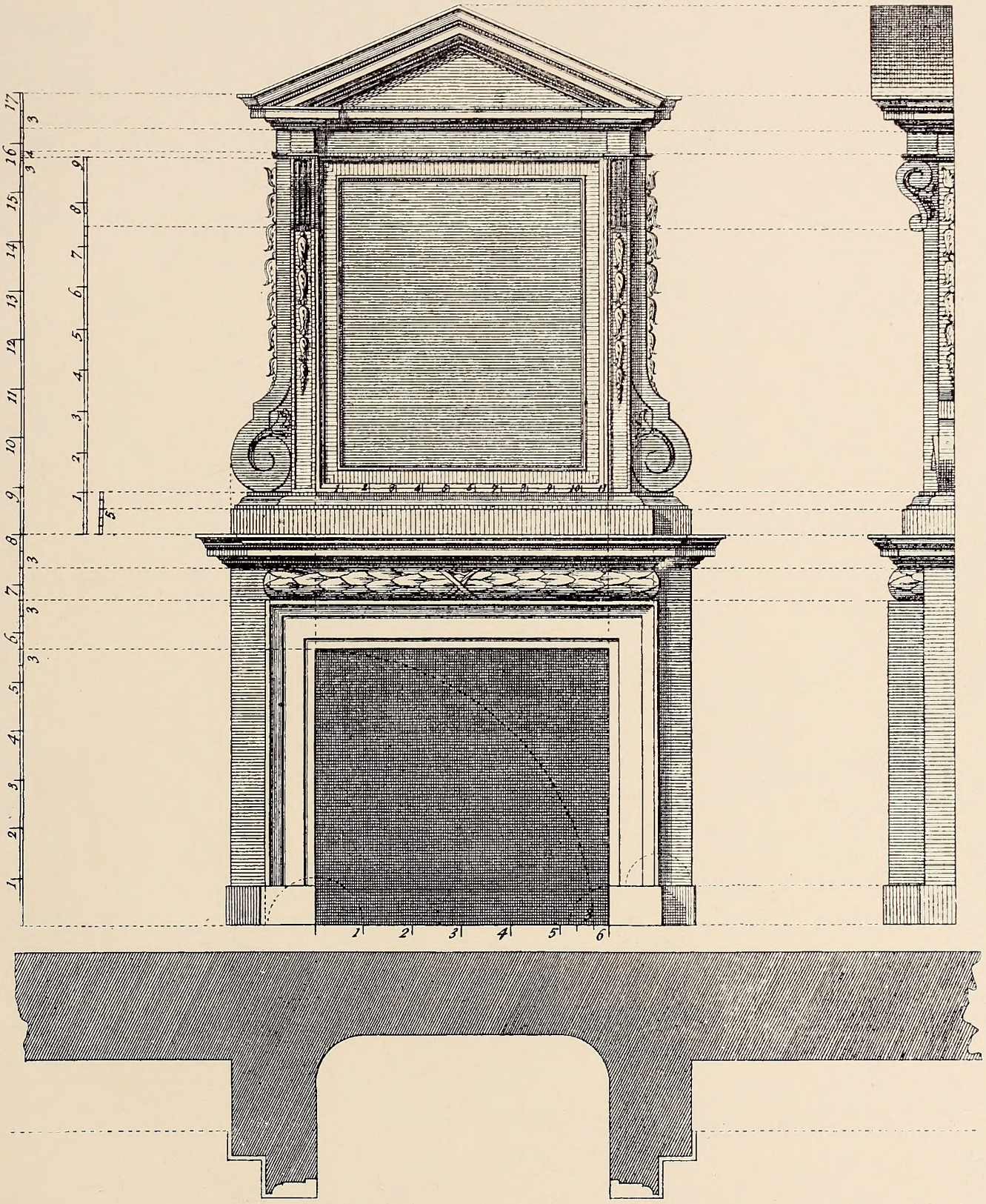


Thomas Langley Invent. Delin. & Sculp. 1739.

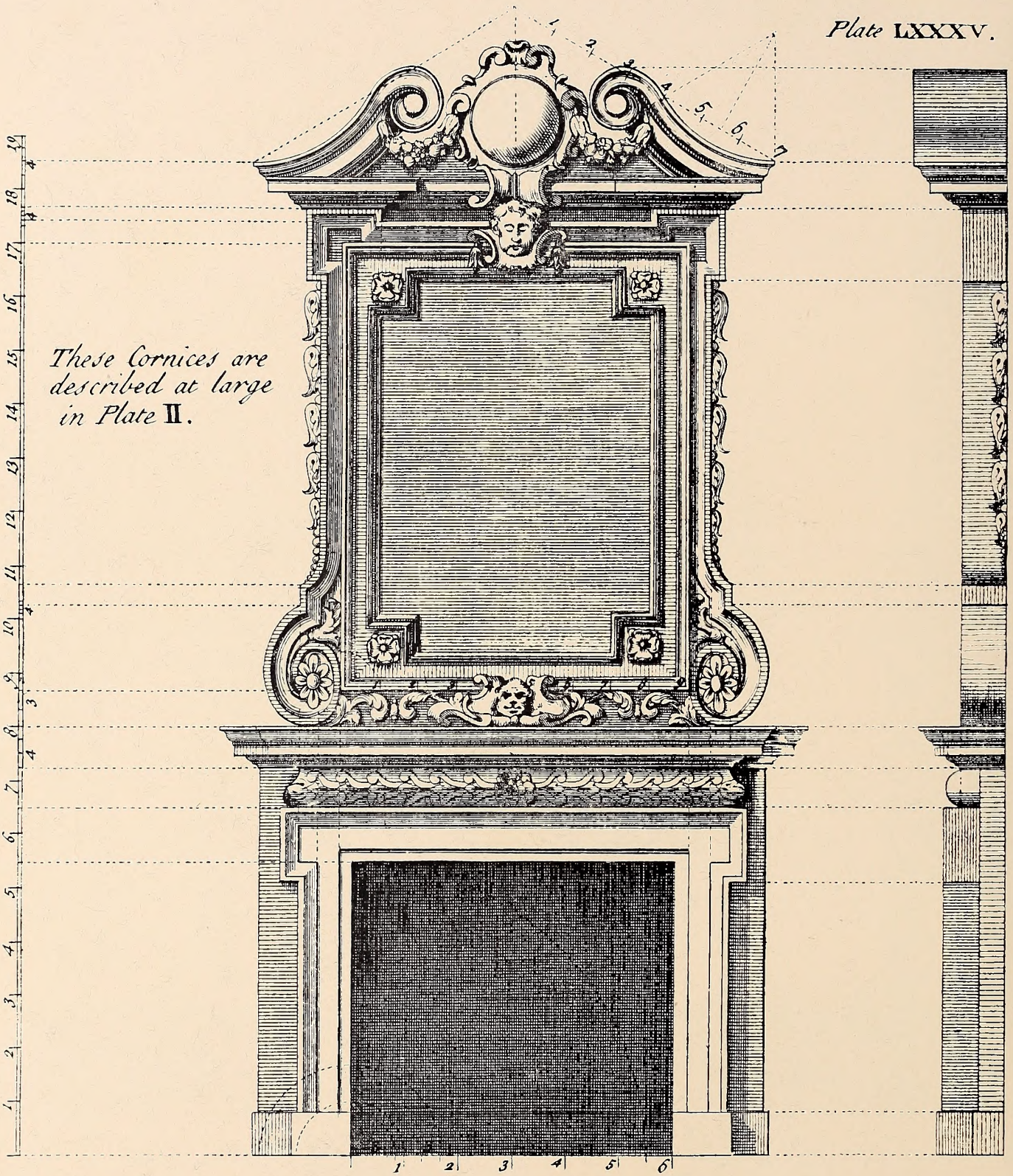


Batty Langley Invent and Delin. 1739.

Thos. Langley Sculp.

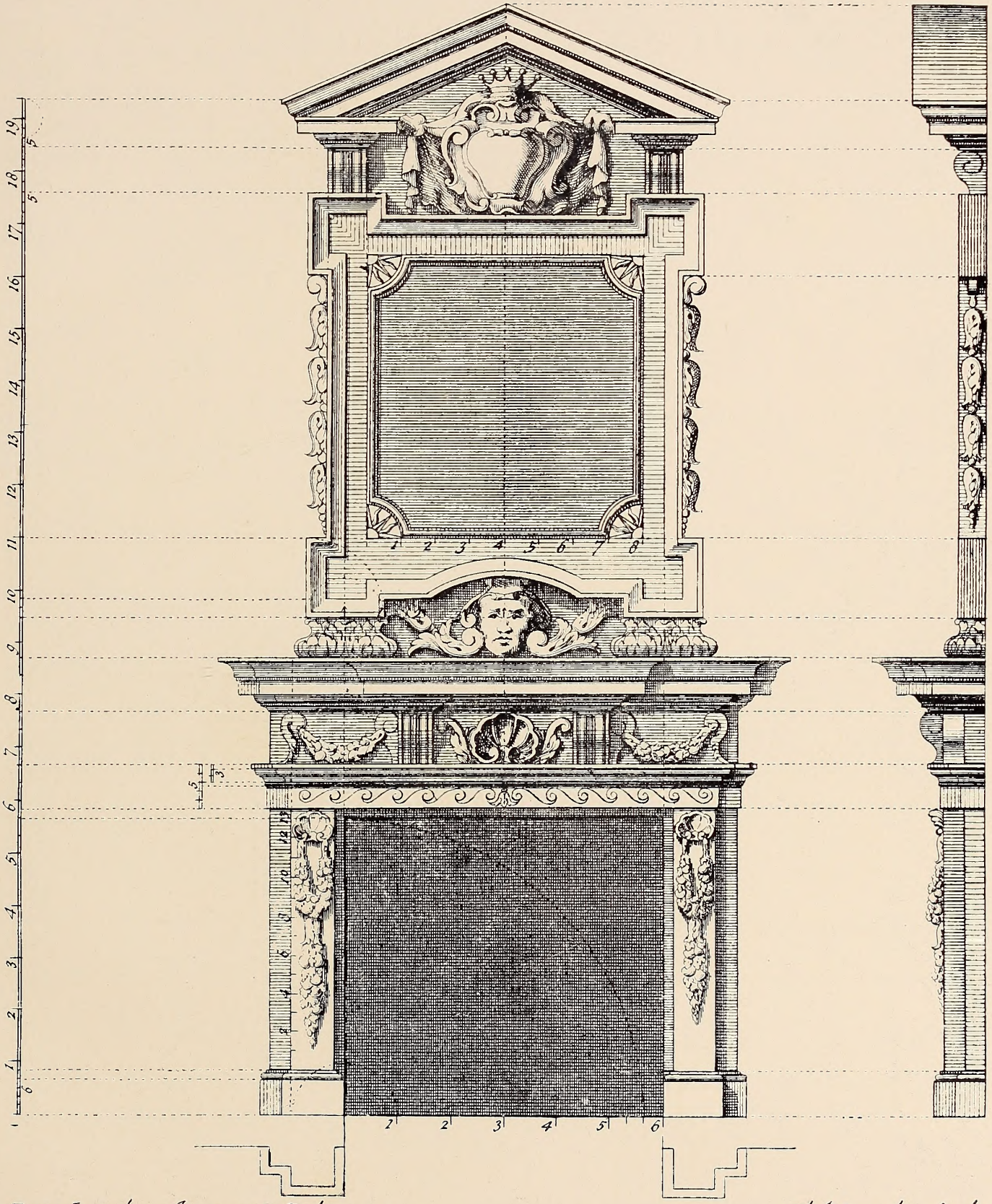


The Measures Invented, proportioned and affixed by Batty Langley 1739. Thos Langley Delin & Sculp.



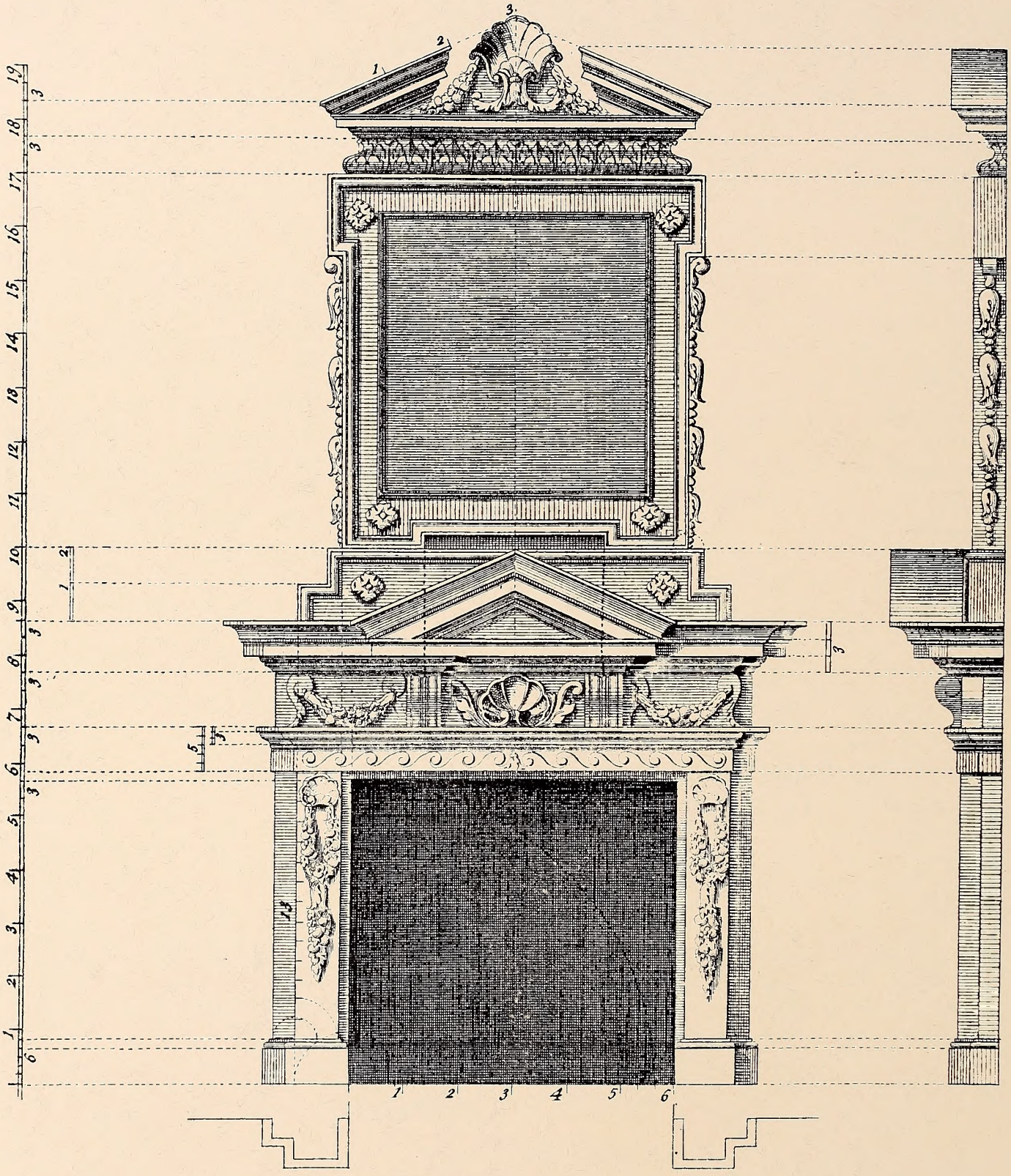
The Measures Invented, proportioned & affixed by Batty Langley 1739.

Thos. Langley Delin. & Sculp.



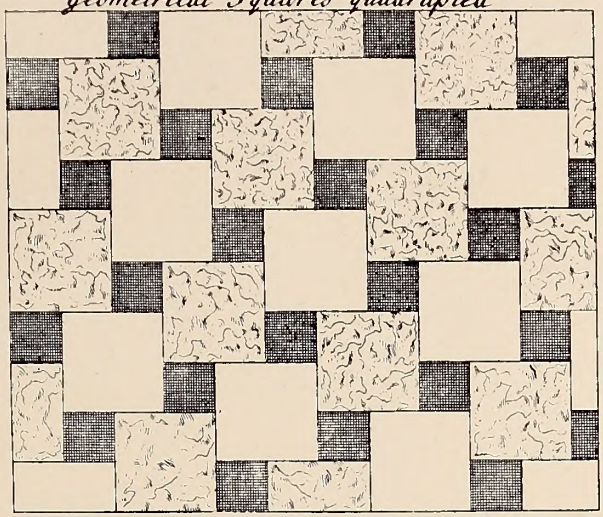
Batty Langley Invent & Delin. 1739.

Thos. Langley Sculp.

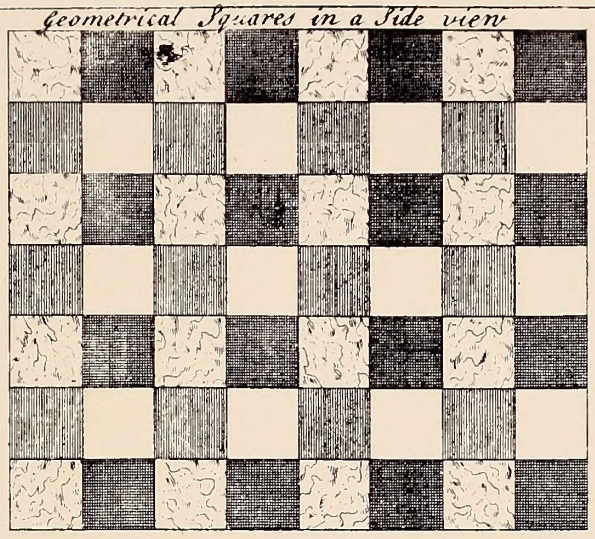


The Measures Invented proportioned and affixed by Batty Langley 1739. *Thos. Langley Sculp.*

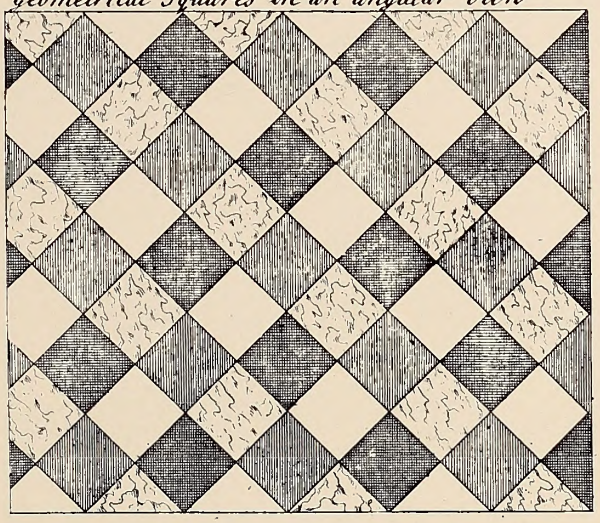
Geometrical Squares quadrupled



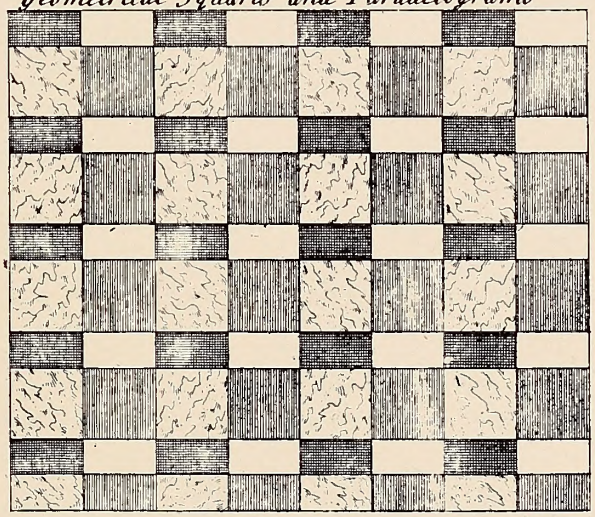
Geometrical Squares in a Side view



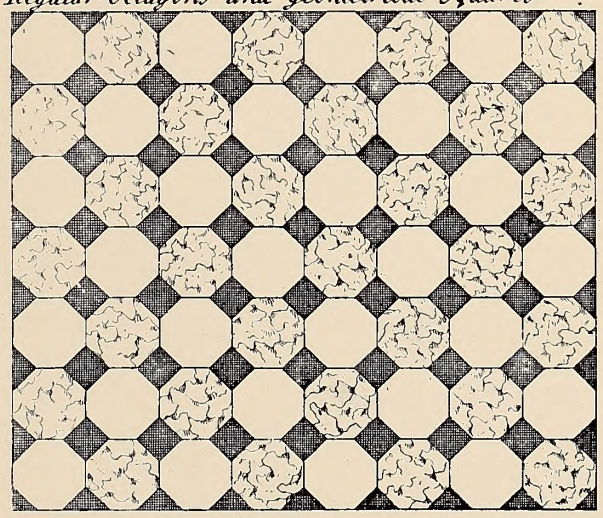
Geometrical Squares in an angular view



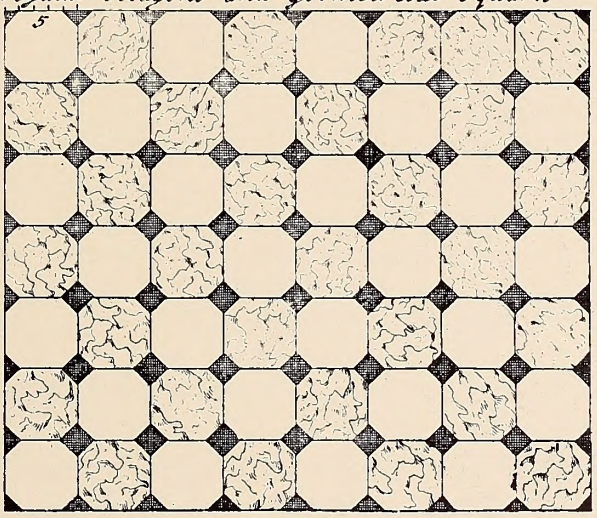
Geometrical Squares and Parallelograms



Regular Octagons and Geometrical Squares

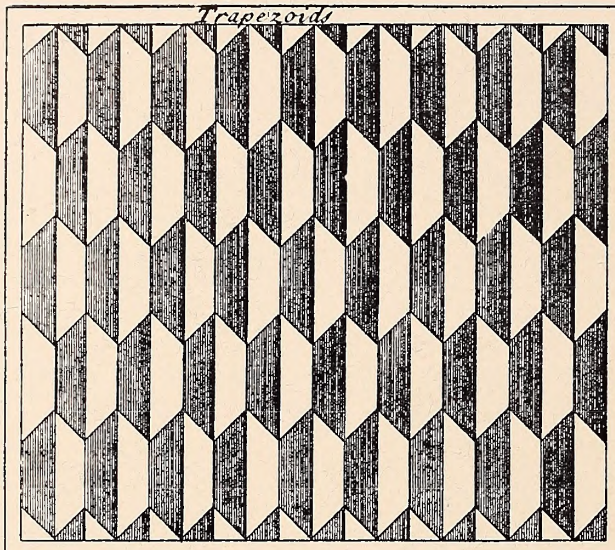


Irregular Octagons and Geometrical Squares

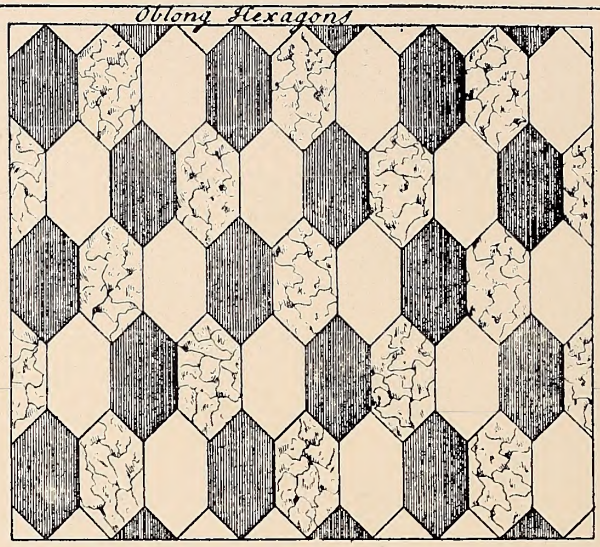


Batty Langley Invent and Delin. 1739. Thos. Langley Sculp.

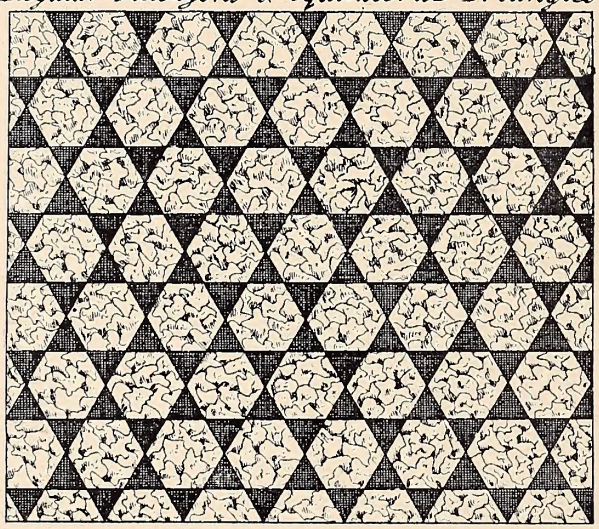
Trapezoids



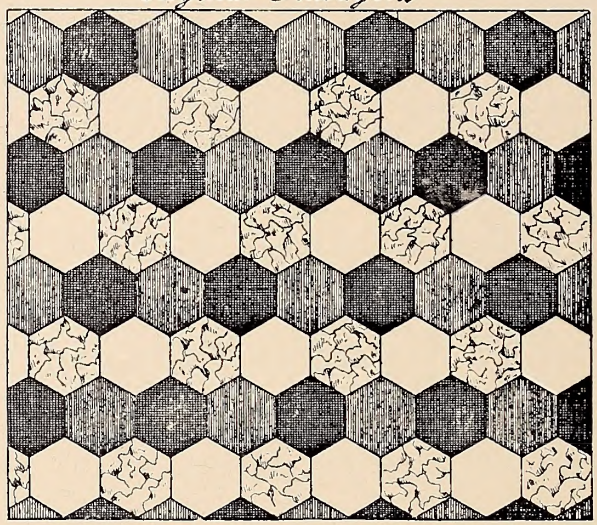
Oblong Hexagons



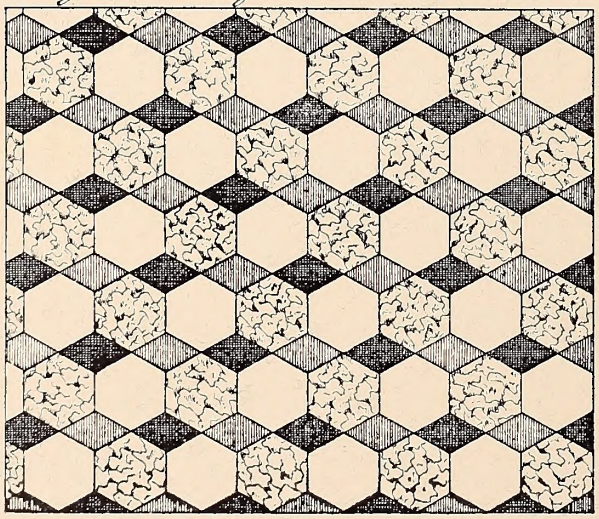
Regular Hexagons & equilateral Triangles



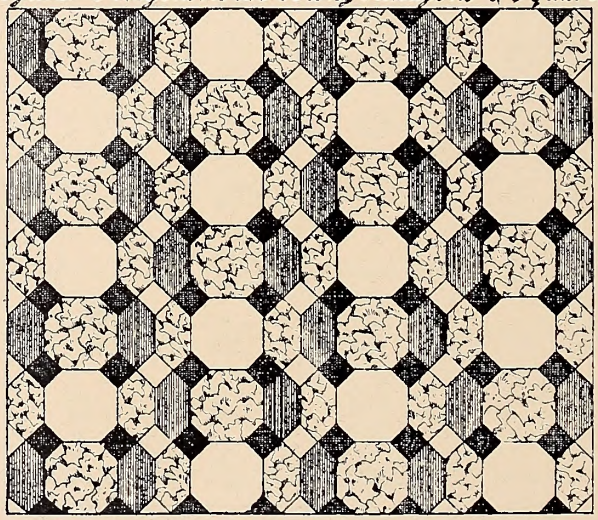
Regular Hexagons



Regular Hexagons, and Rhombuss

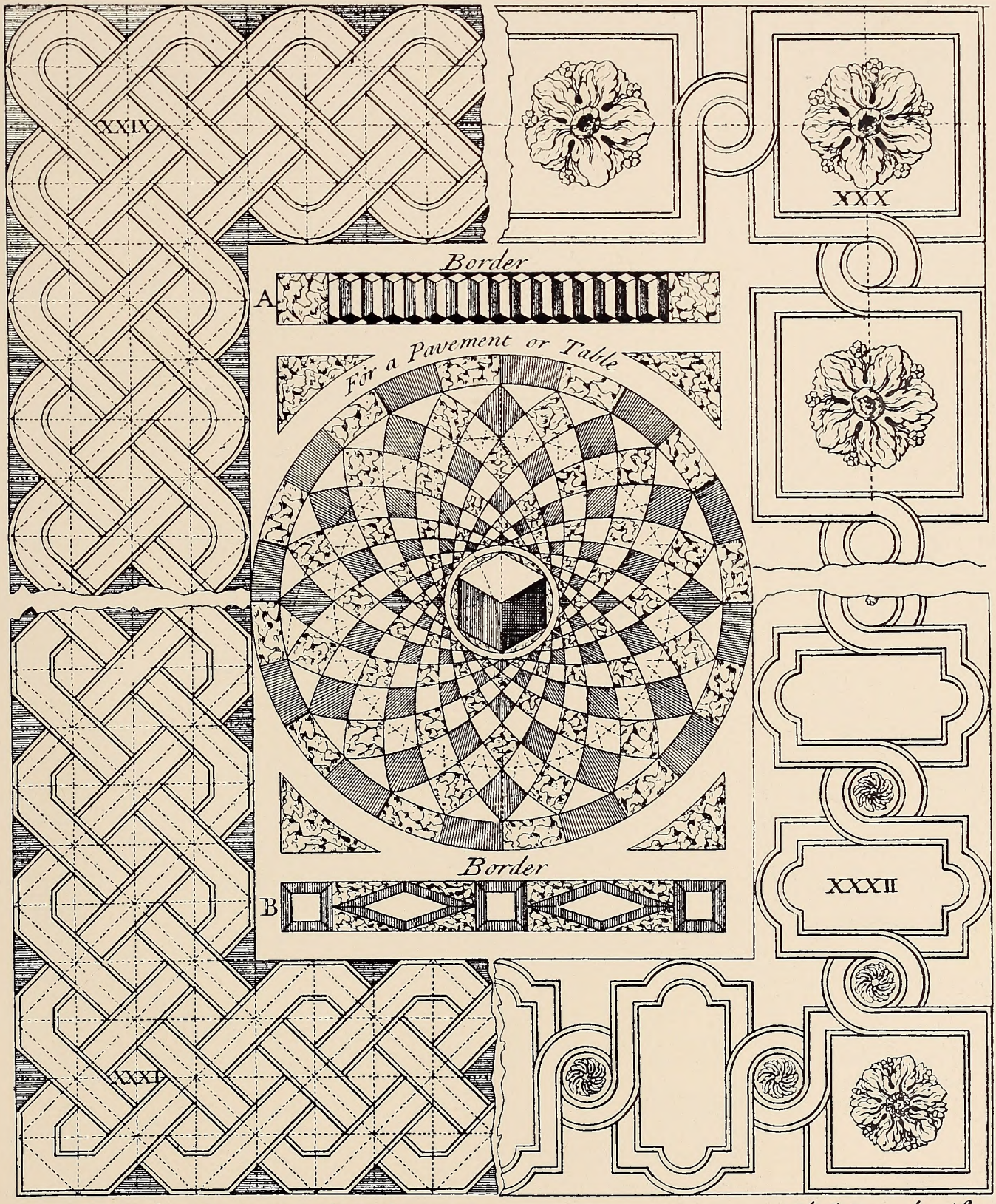


Irregular Octagons, with oblong Hexagons & Squares

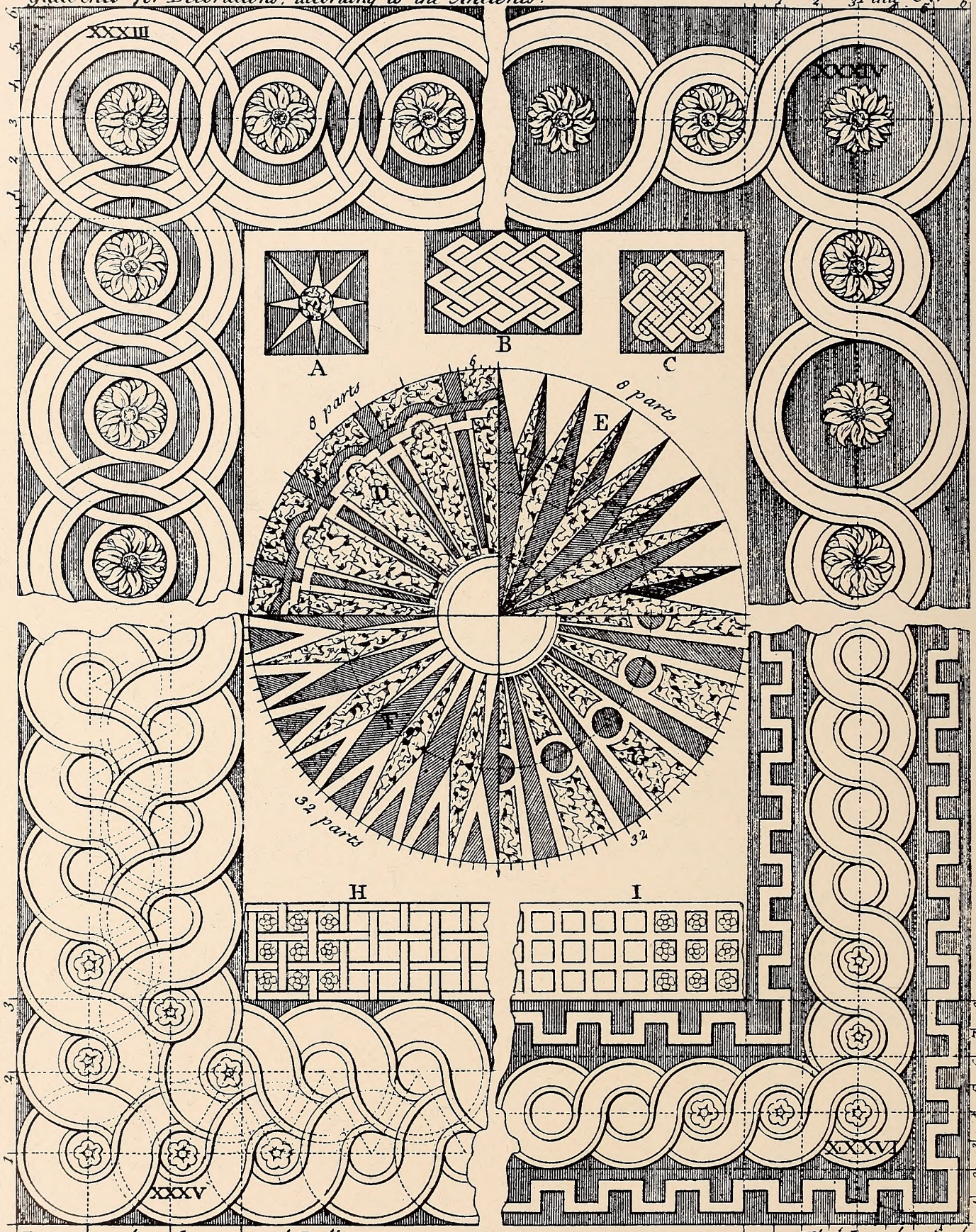


Batty Langley Invent and Delin. 1739. *Thos. Langley Sculp.*

Guilochi's *for decorating, Looking Glass and Picture Frames &c.* Plate CIV.



Batty Langley Invent and Delin. 1739. *Thos. Langley Sculp*

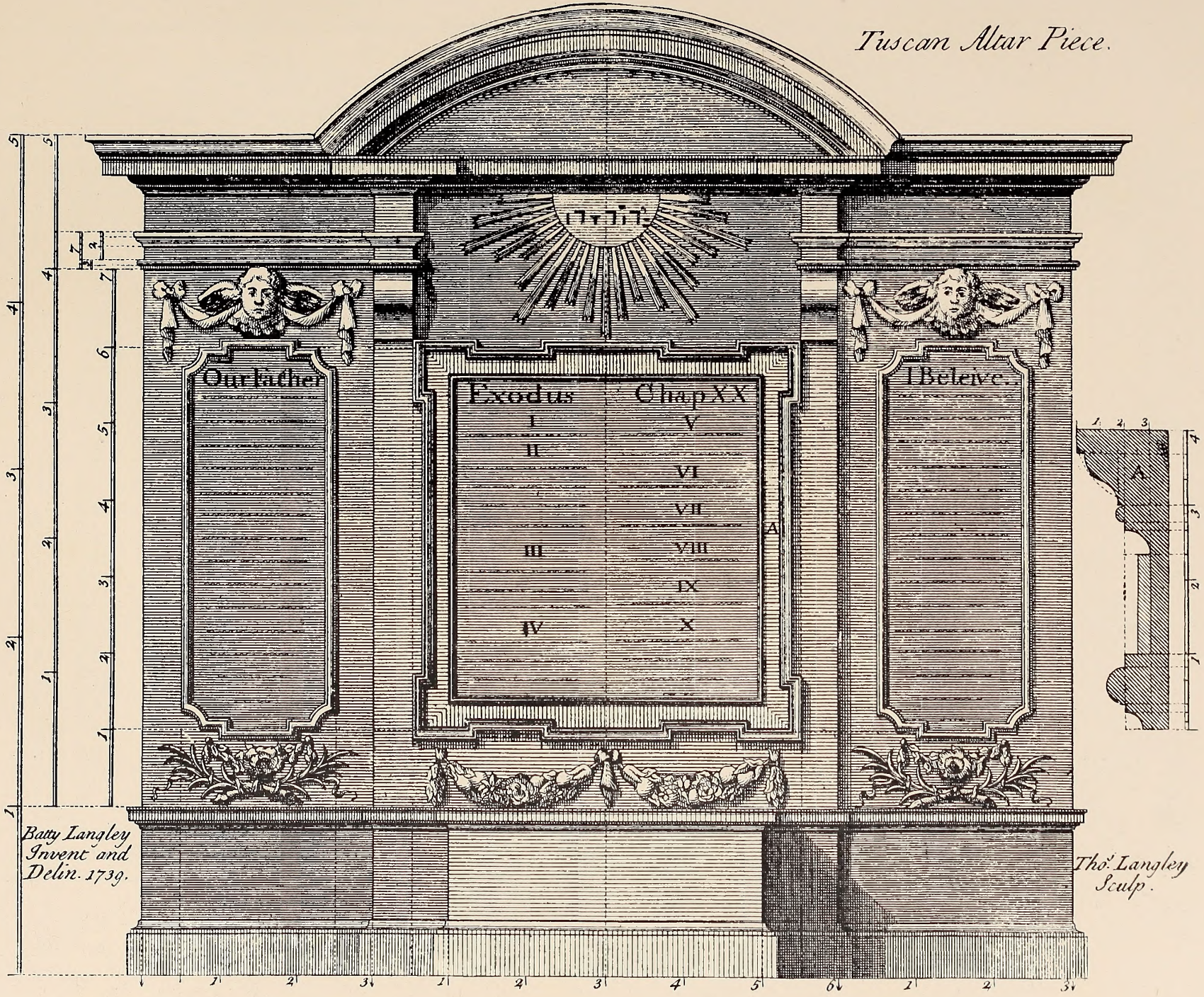


Batty Langley Invent and Delin. 1739.

Thos. Langley Sculp.

Plate CIX.

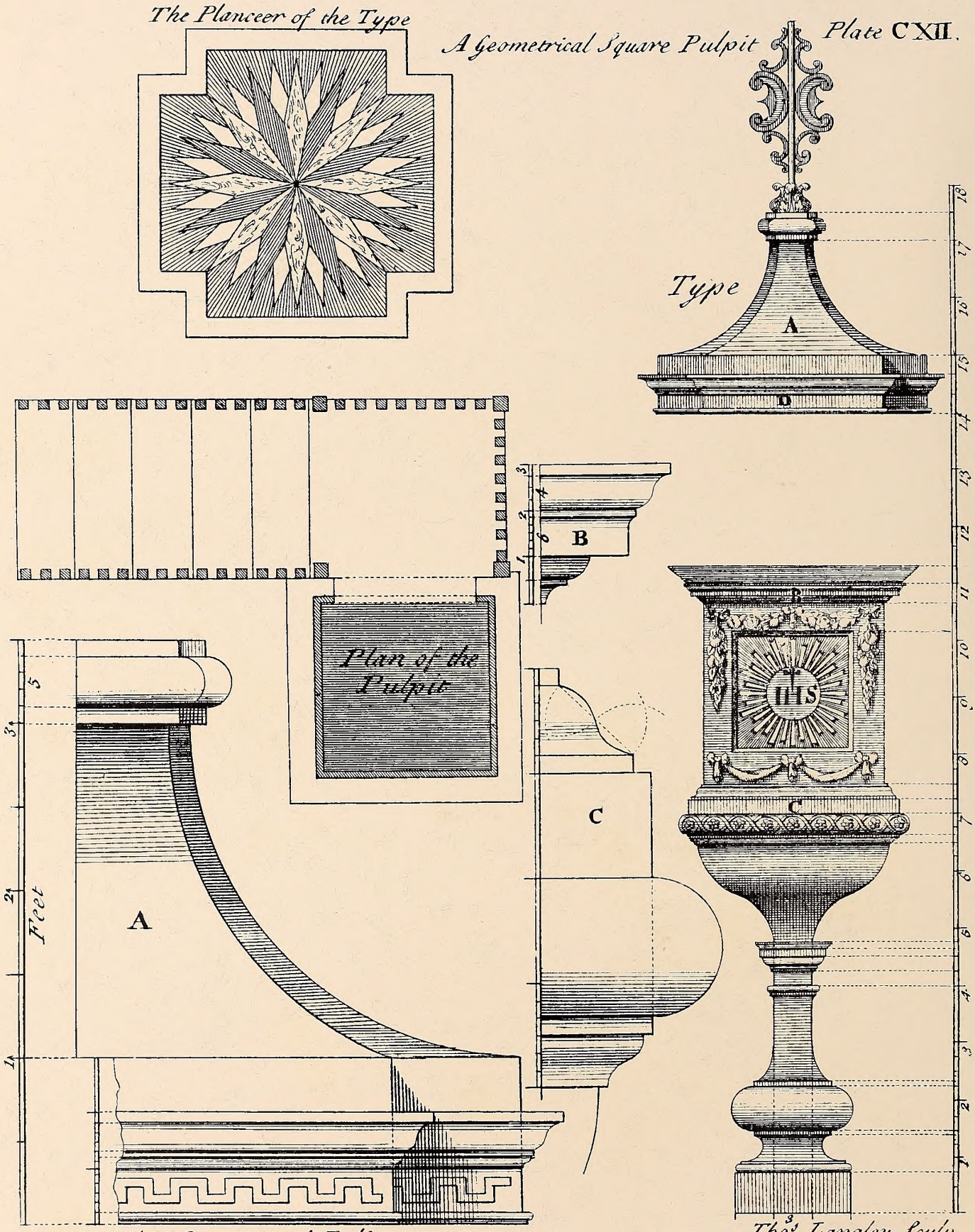
Tuscan Altar Piece.



Batty Langley Invent and Delin. 1739.

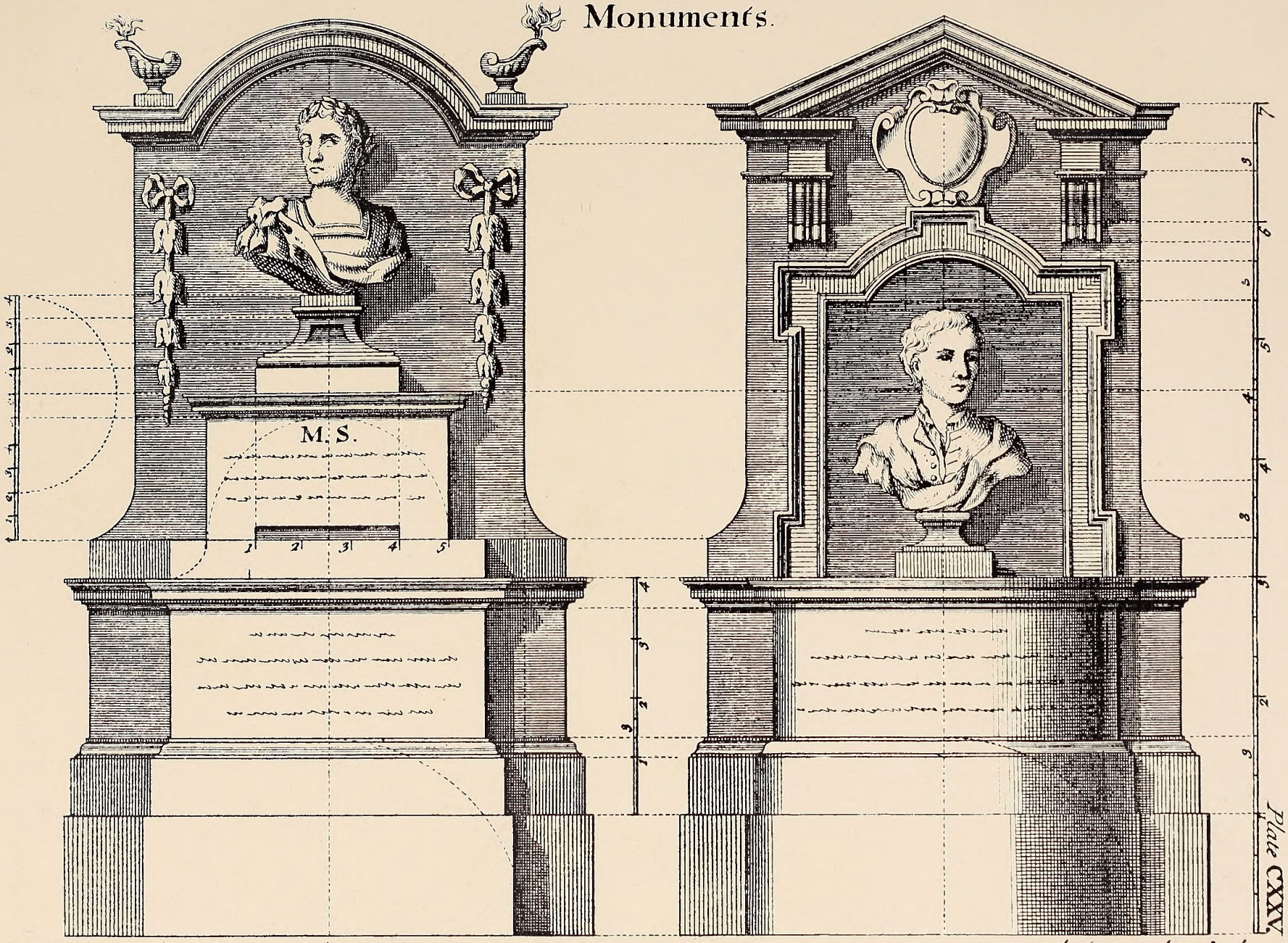
Thos. Langley Sculp.

A Geometrical Square Pulpit



Batty Langley Invent and Delin. 1739.

Thos. Langley Sculp.



Batty Langley Invent and Delin. 1739.

Thos. Langley Sculp.

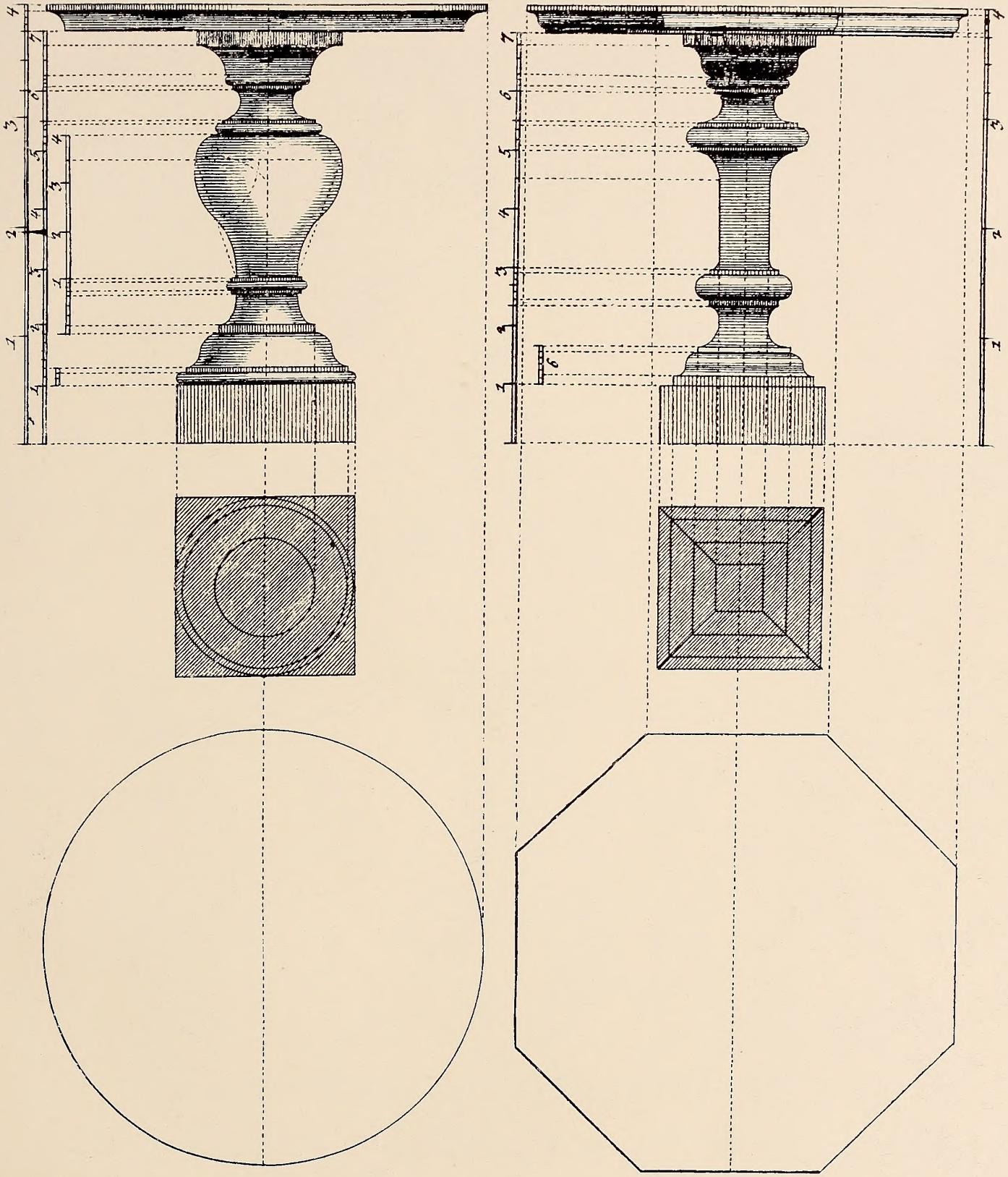
Time Piece

Plate CXL

Thó Langley Invent delin and Sculp

Marble Tables for Grotto's &c.

Plate CXLVIII

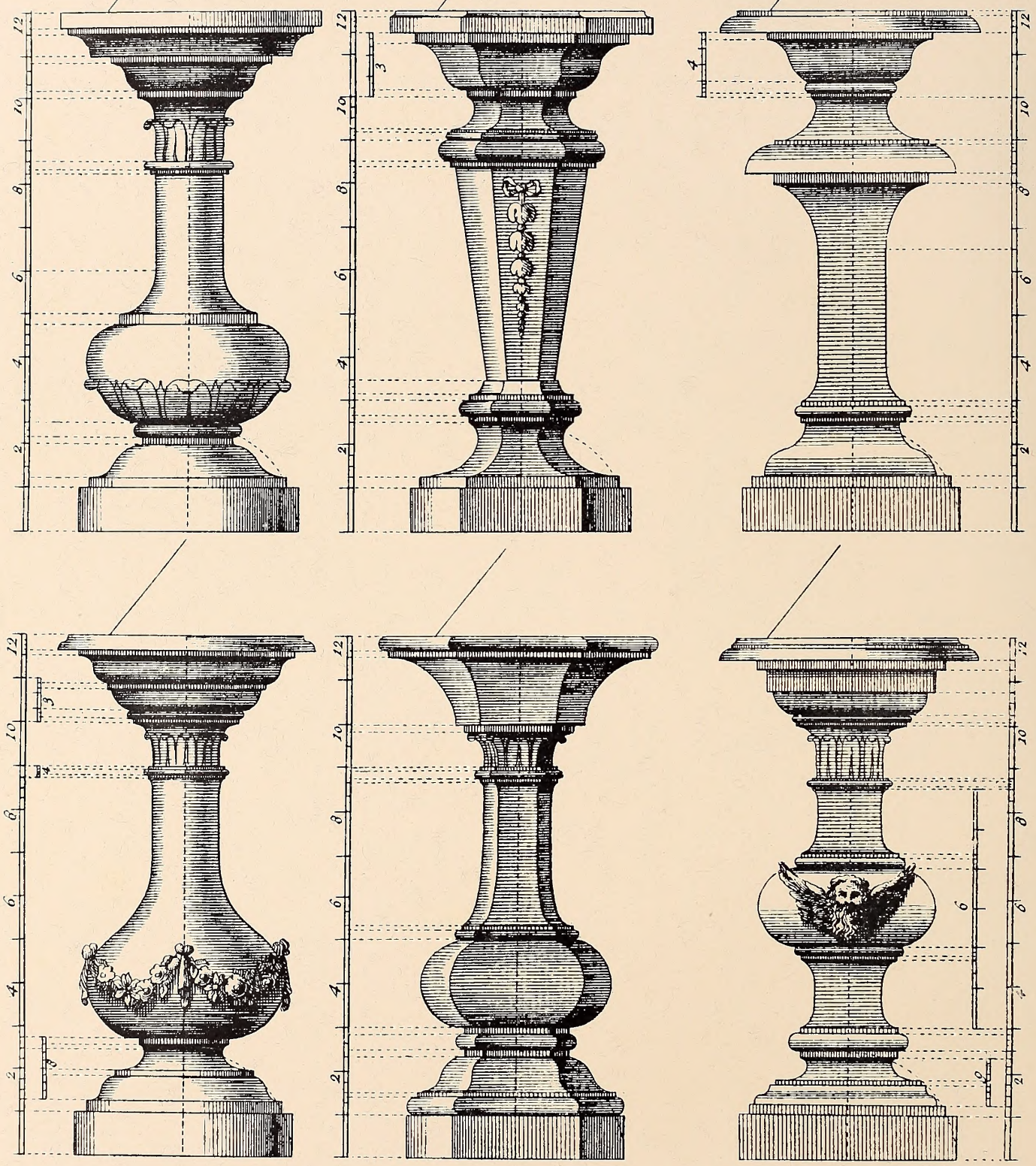


Batty Langley Invent 1739

Thos Langley Sculp.

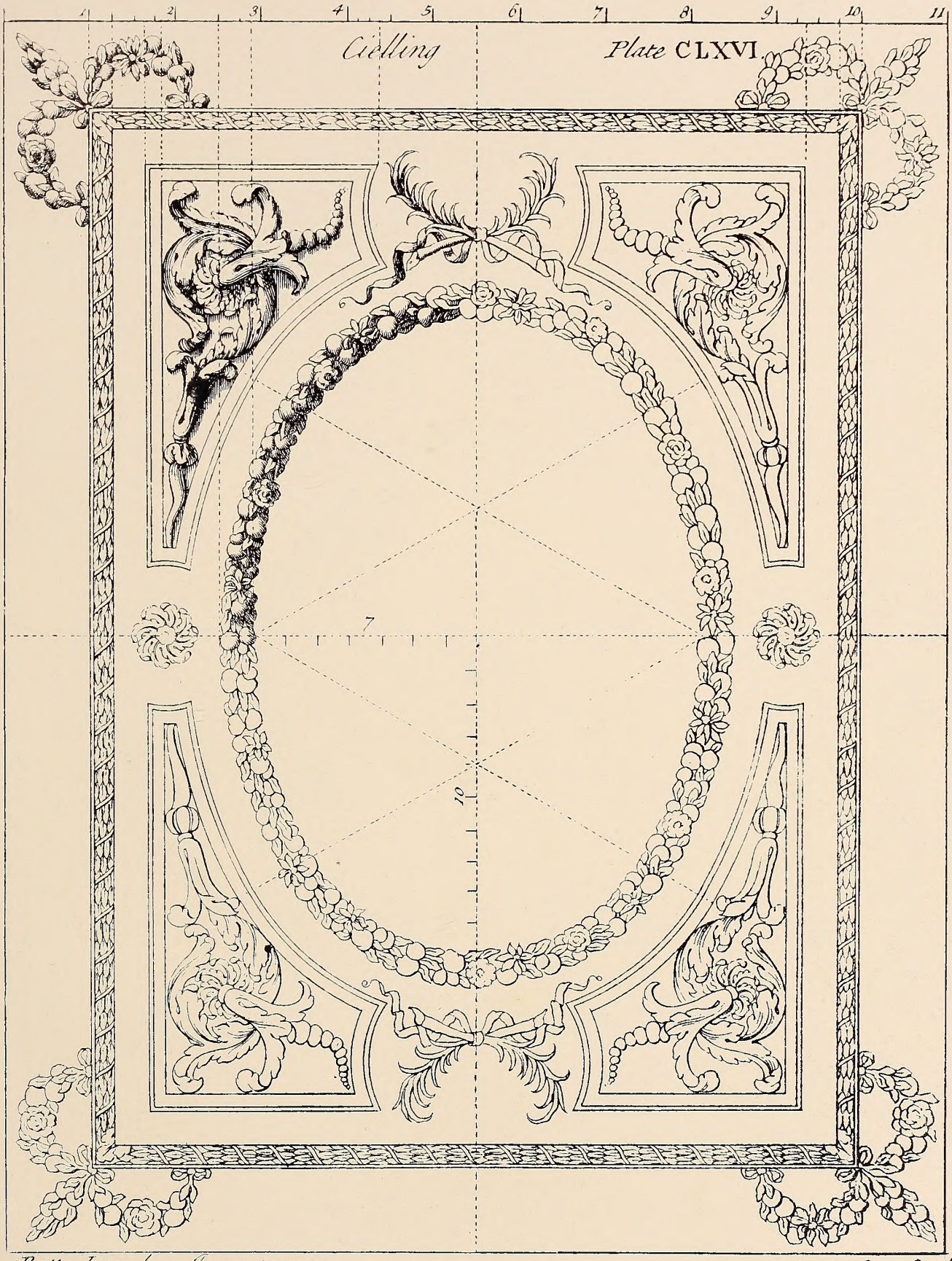
Pedestals for Sun Dials.

Plate CLI.



Batty Langley Invent and Delin. 1739.

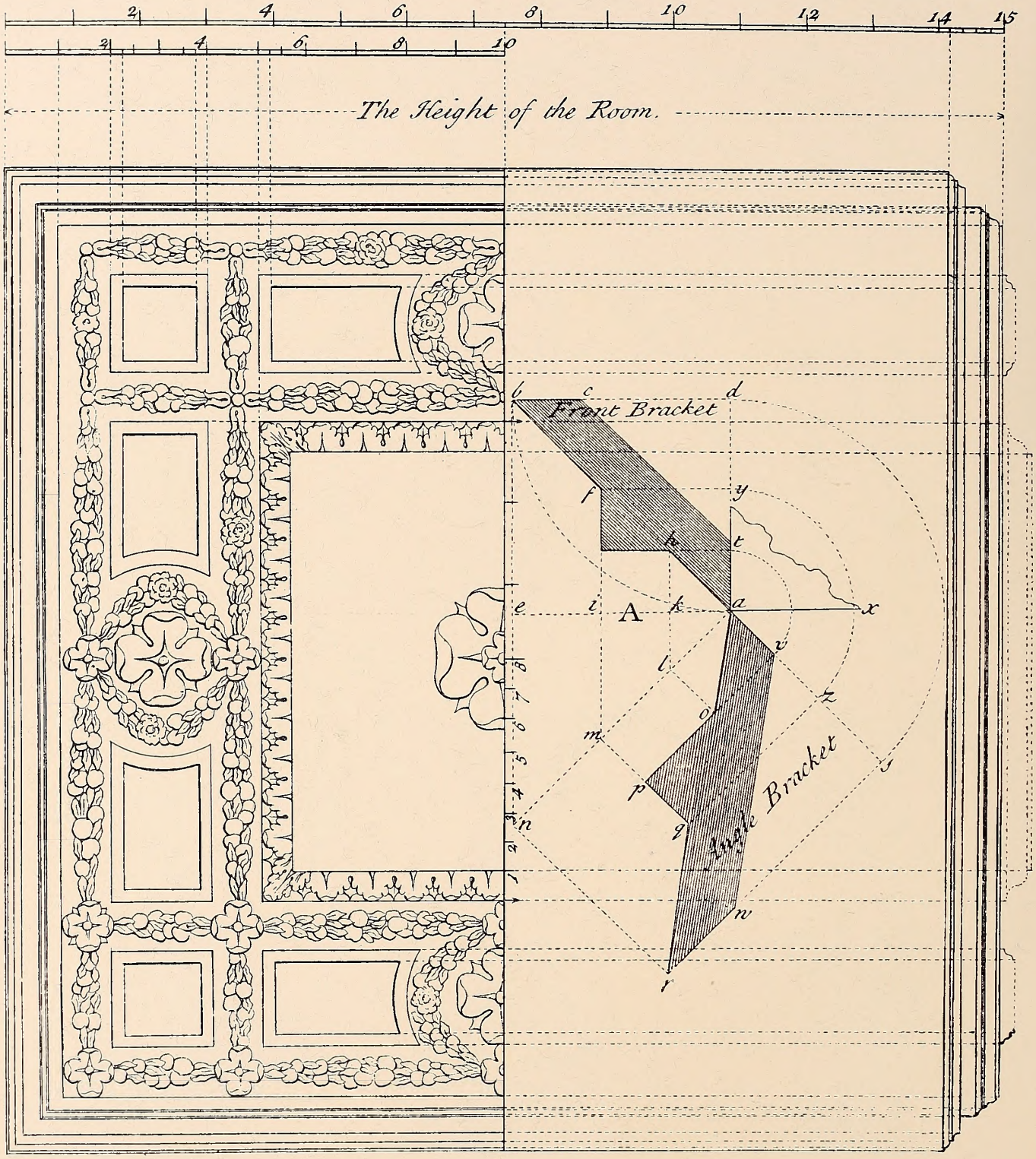
Thos. Langley Sculp.



Batty Langley Invent 1739.

T. Langley Sculp

Cielling

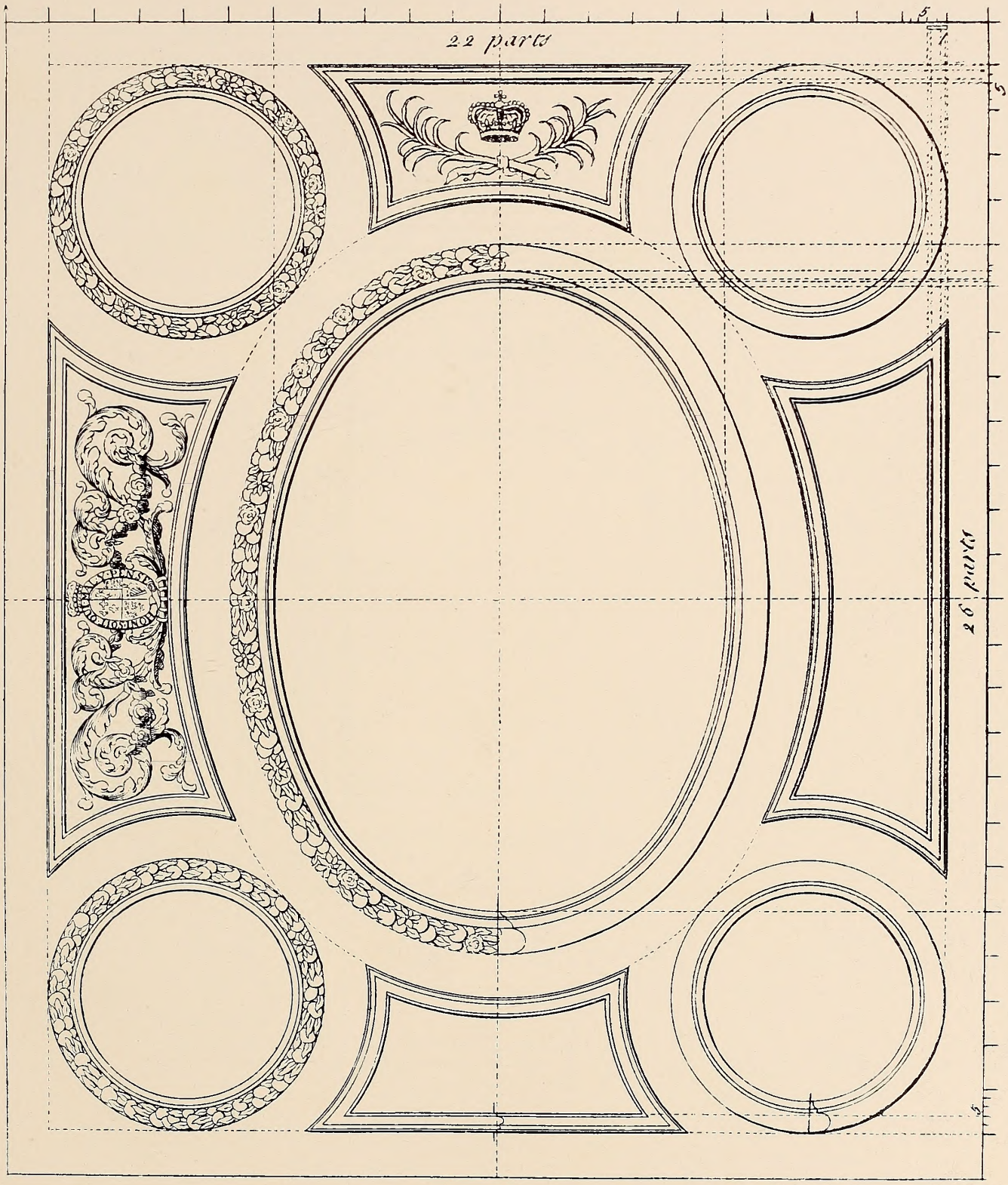


Batty Langley Invent 1739.

T. Langley Sculp.

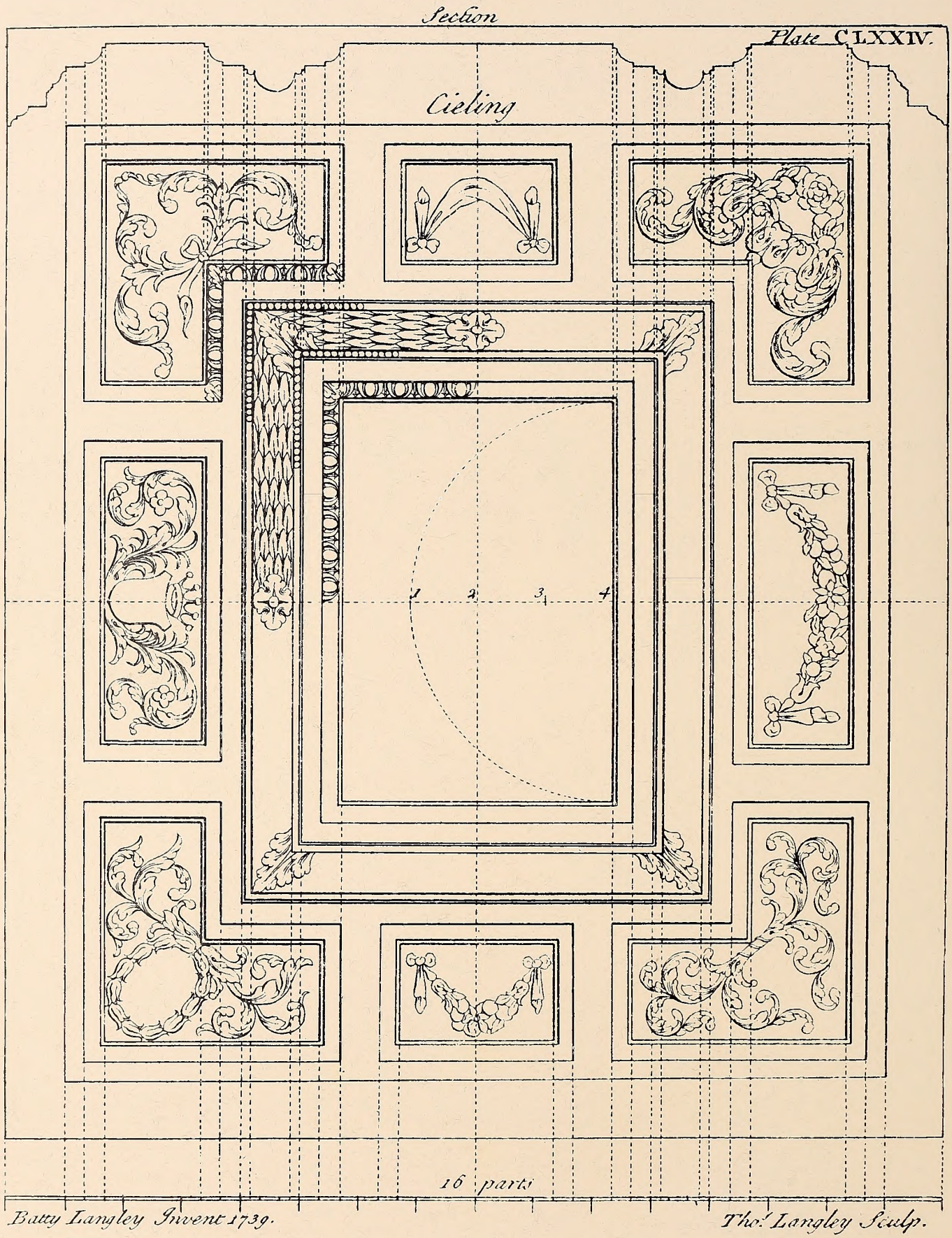
Plate CLXXI

Cieling



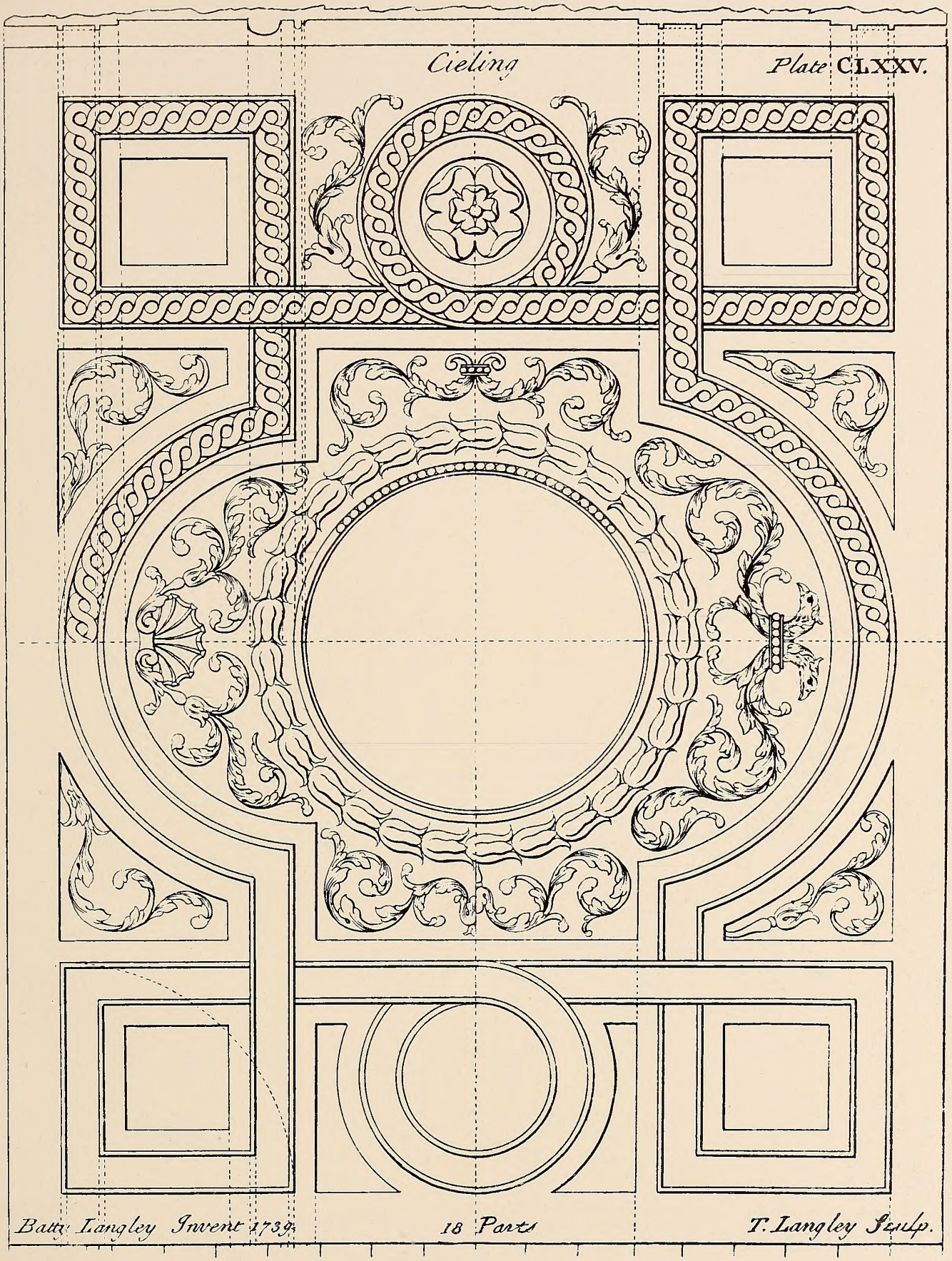
Batty Langley Invent 1739.

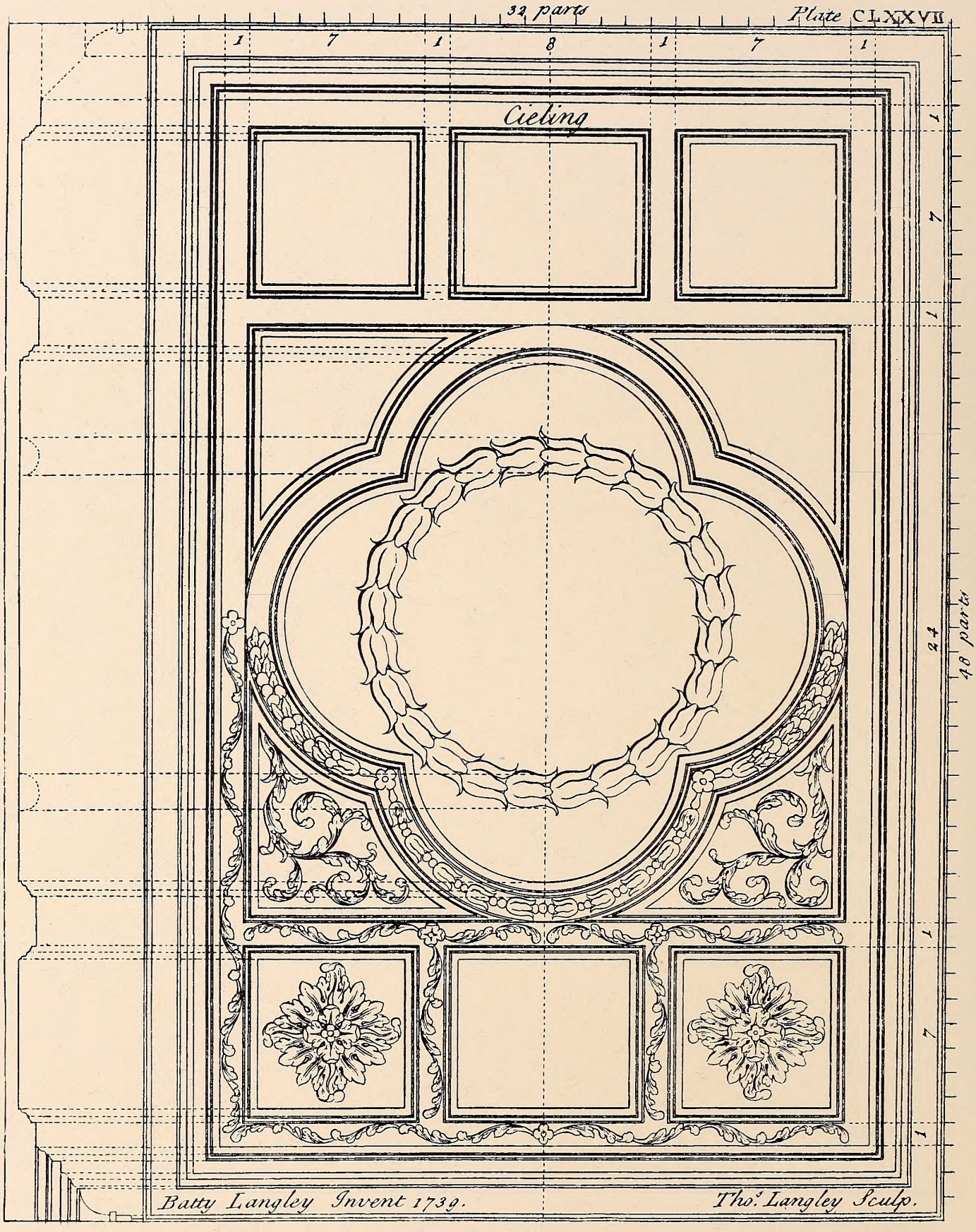
T. Lawley Sculp



Batty Langley Invent 1739.

Thos. Langley Sculp.

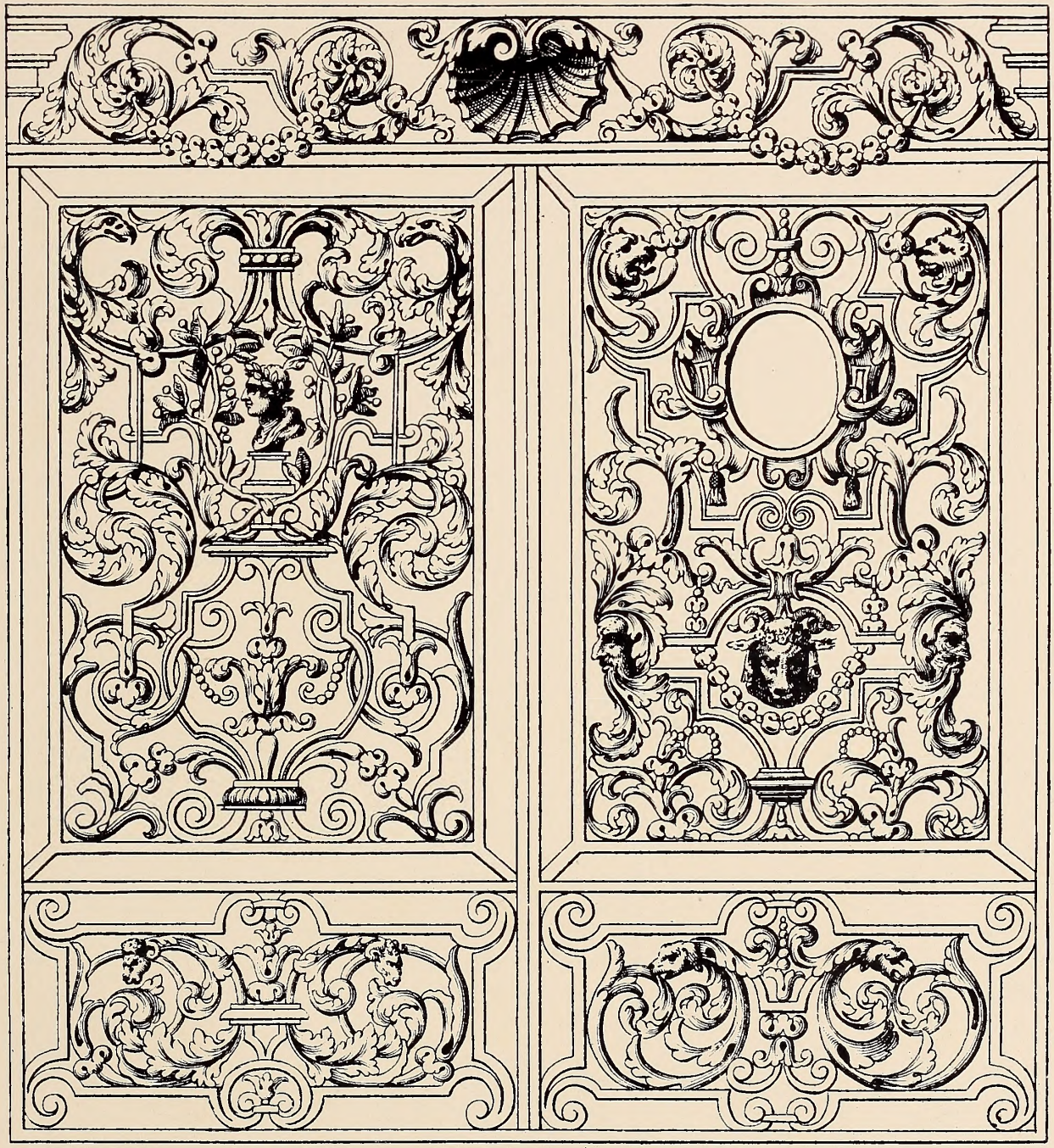

Cieling
Plate CLXXV.
Batty Langley Invent 1739.
18 Parts
T. Langley Sculp.



Batty Langley Invent 1739.

Thos. Langley Sculp.

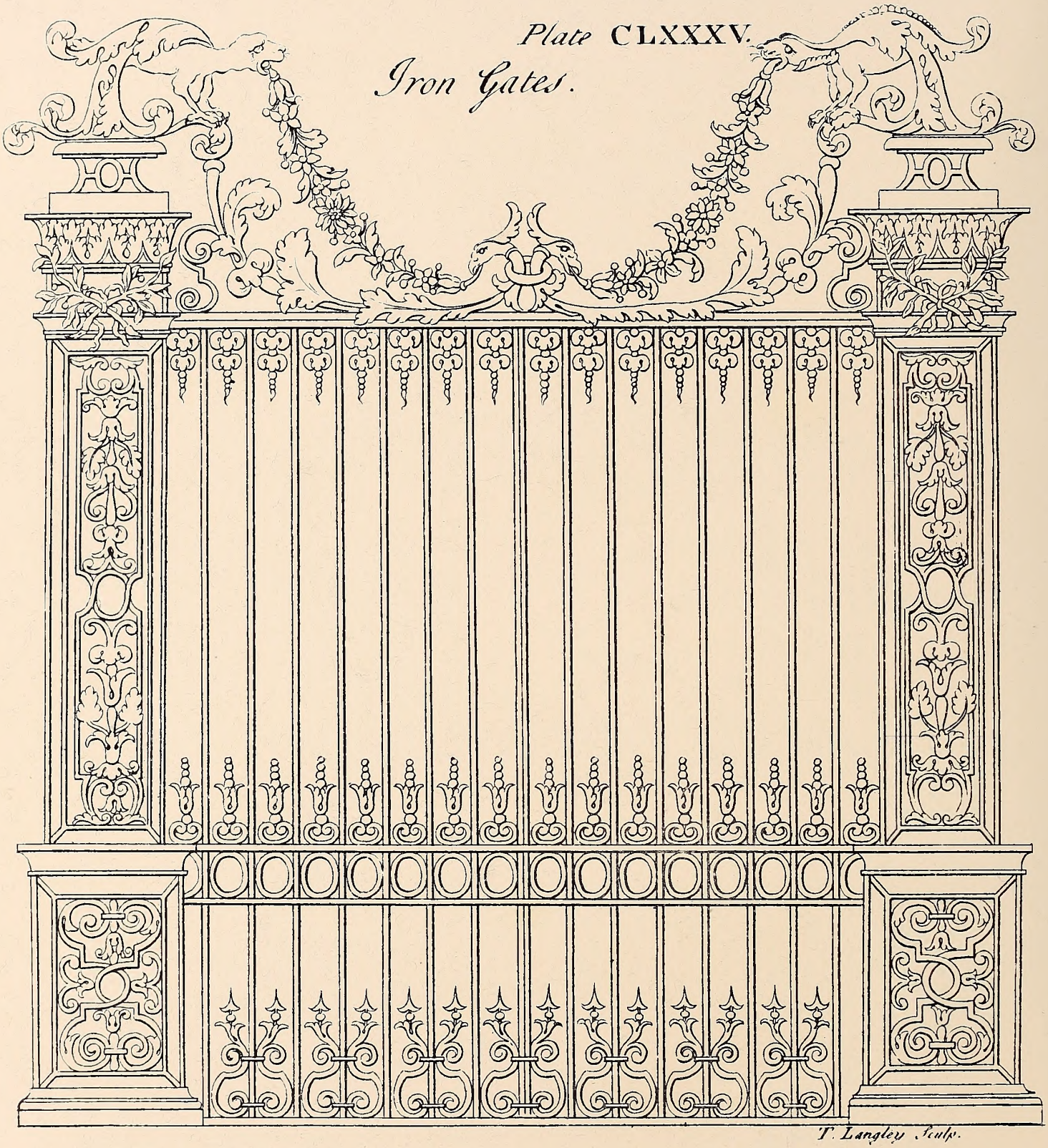
Pannels for Iron Gates &c.



Tho. Langley Sculp

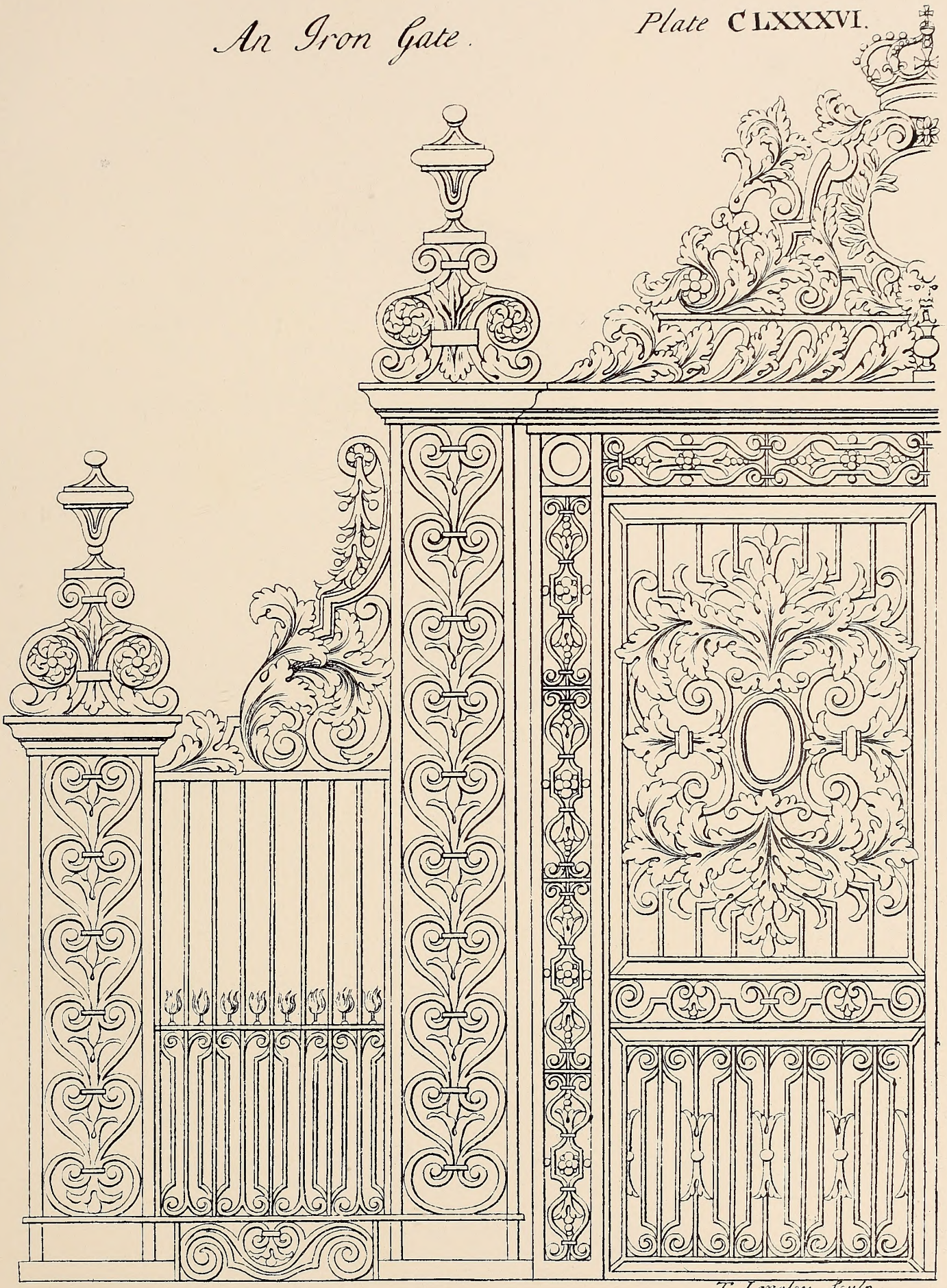
Plate CLXXXV.

Iron Gates.



T. Langley Sculp.

An Iron Gate. *Plate* CLXXXVI.



T. Langley Sculp.

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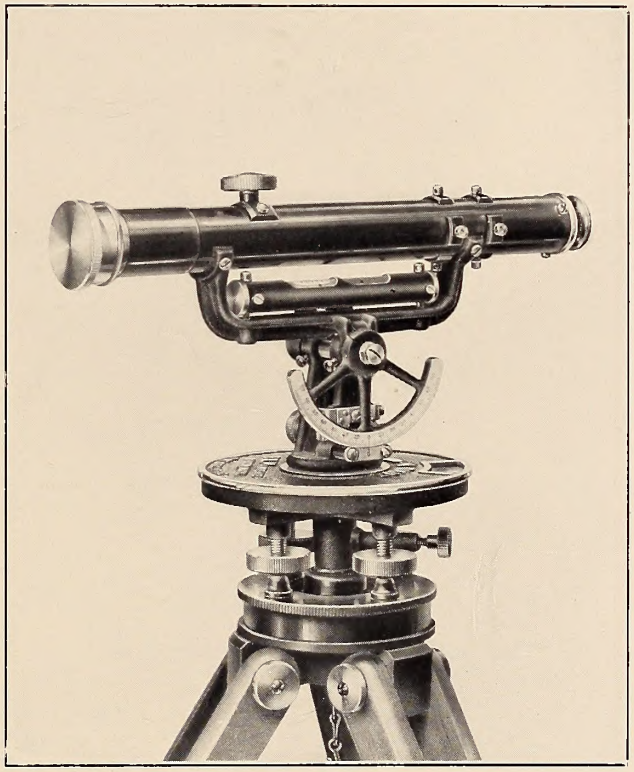

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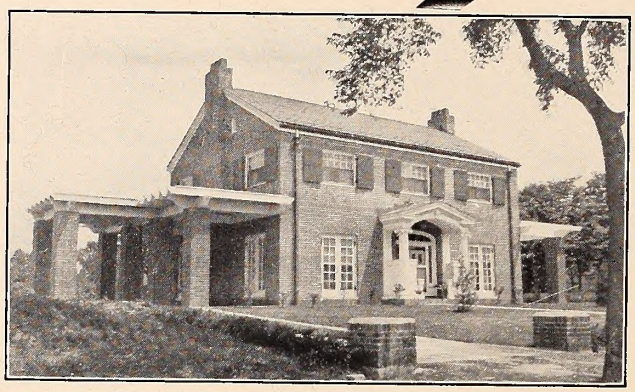

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In What Quantities Is It Available?

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Are These Marbles Expensive?

Despite their superiority in quality and exceptional beauty, Appalachian Marbles are not higher priced than other Marbles and are, of course, greatly lower than foreign marbles.

Where Have They Been Used?

A partial list of the architects who have used Appalachian Marble in their work and the buildings in which they have been used is given herewith.

Name of Job, Architect and Address

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First State Bank, Royal Oak, Mich.—Fred'k D. Madison, Royal Oak, Mich.
People's Savings Bank, Barberton, Ohio—Nachtegall Manufacturing Co., Grand Rapids, Mich.
Buffalo City Hospital Group, Buffalo, N. Y.—Green & Wicks, Buffalo, N. Y.
East Side School, Cincinnati, Ohio—Garber & Woodward, Cincinnati, Ohio.
Erie Academy, Erie, Pa.—Wm. B. Ittner, St. Louis, Mo.
Chas. Vernon Gridley School, Erie, Pa.—Wm. B. Ittner, S . Louis, Mo.
Christopher Columbus School, Erie, Pa.—Wm. B. Ittner, St. Louis, Mo.
City Hall, Galveston, Texas—C. D. Hill & Co., Dallas, Texas.
First National Building, El Paso, Texas—Barglebaugh & Whitson, El Paso, Texas.
Bienville Apartments, New Orleans, La.—Toledano, Wogan & Bernard, New Orleans, La.
Albany City Hall, Albany, N. Y.—Ogden & Gander, Albany, N. Y.
Signal Mountain Inn, Chattanooga, Tenn.—Alsop & Phillips, Chattanooga, Tenn.
Exchange Bank, Olean, N. Y.—Mowbray & Uffinger, New York City, N. Y.
Green County Court House, Jefferson, Iowa—Proudfoot, Bird & Rawson, Des Moines, Iowa.
Hubbell Building, Des Moines, Iowa—Proudfoot, Bird & Rawson, Des Moines, Iowa.
Valley National Bank Building, Des Moines, Iowa—Proudfoot, Bird & Rawson, Des Moines, Iowa.
General Motors Building, Detroit, Mich.—Albert Kahn, De roit, Mich.
Fidelity Trust Company, Knoxville, Tenn.—Manley & Young, Knoxville, Tenn.
First National Bank, Birmingham, Ala.—Warren, Knight & Davis, Birmingham, Ala.
Jacksonville Terminal Station—Kenneth M. Murchison, New York City, N. Y.
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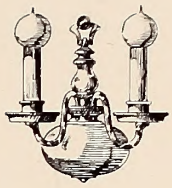

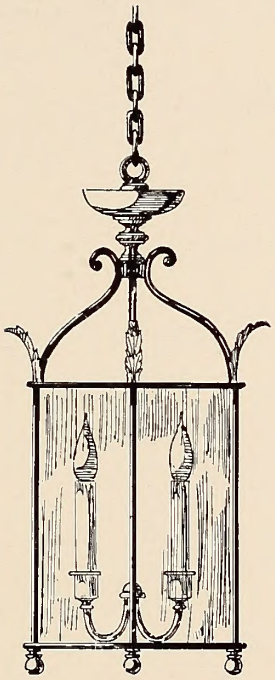

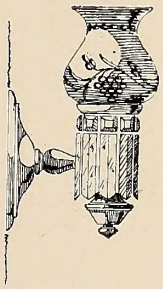

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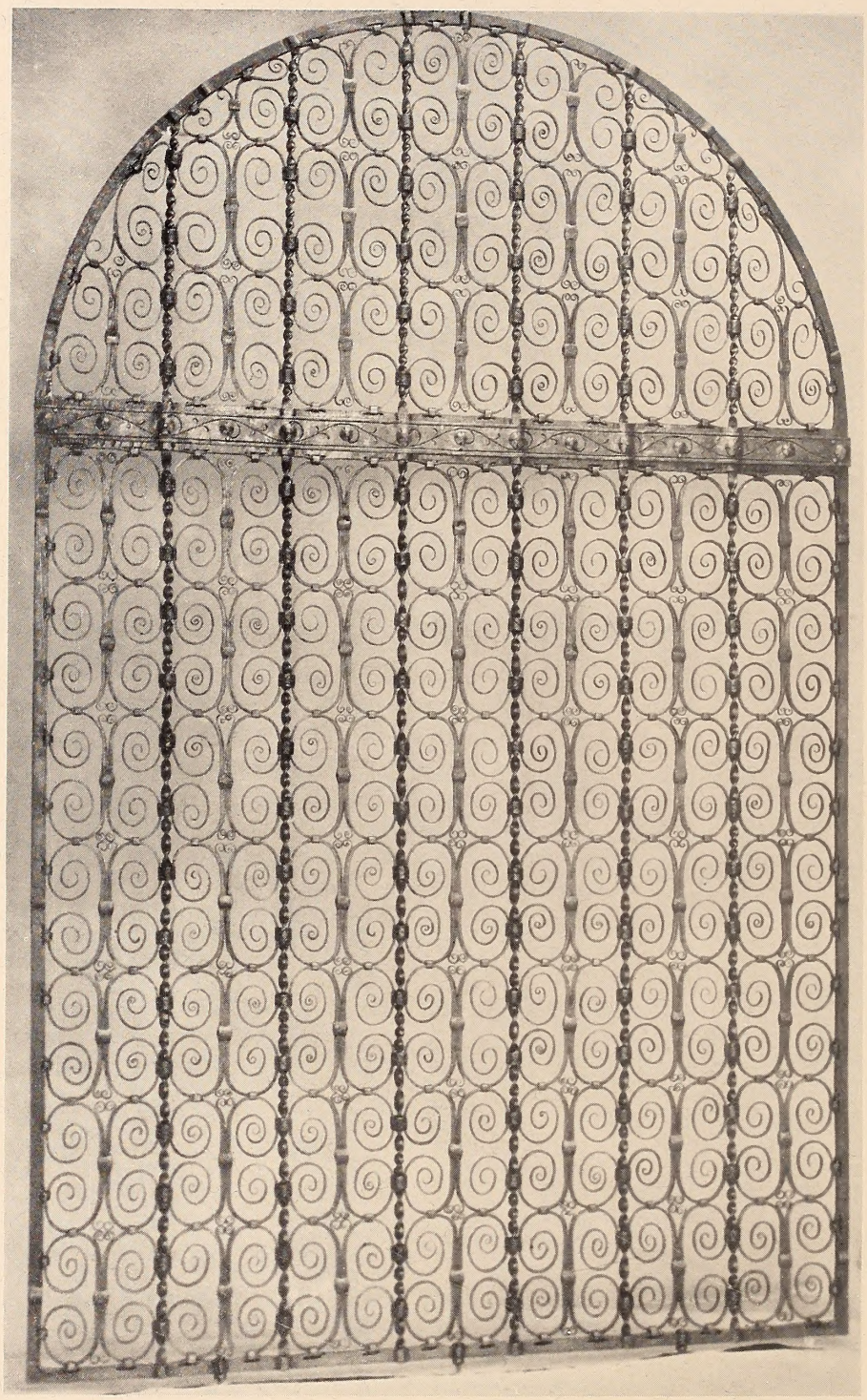

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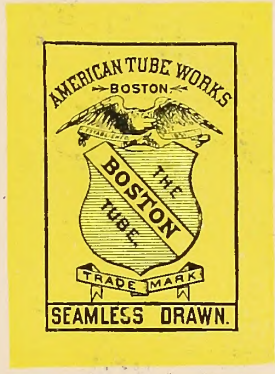

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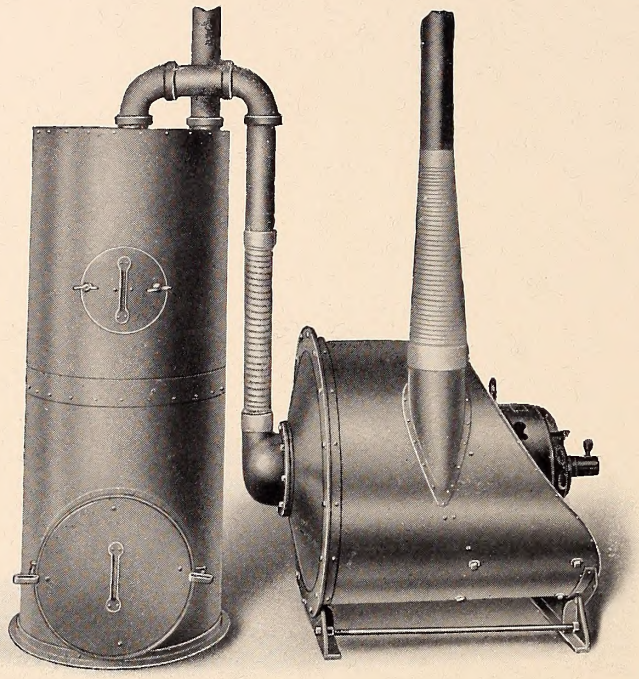

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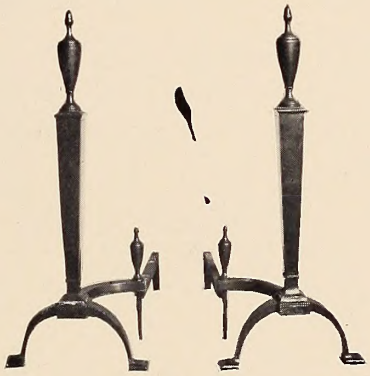

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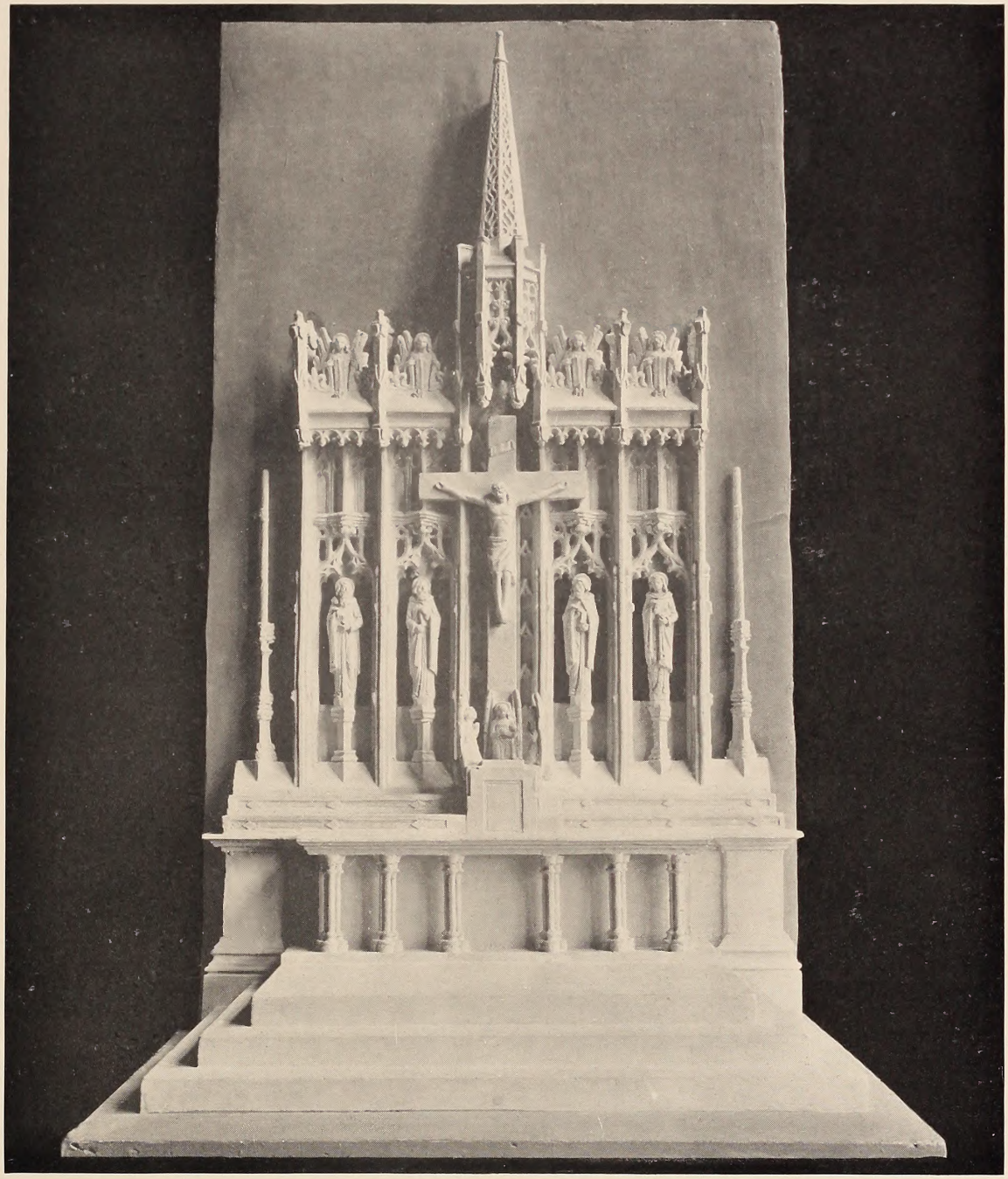

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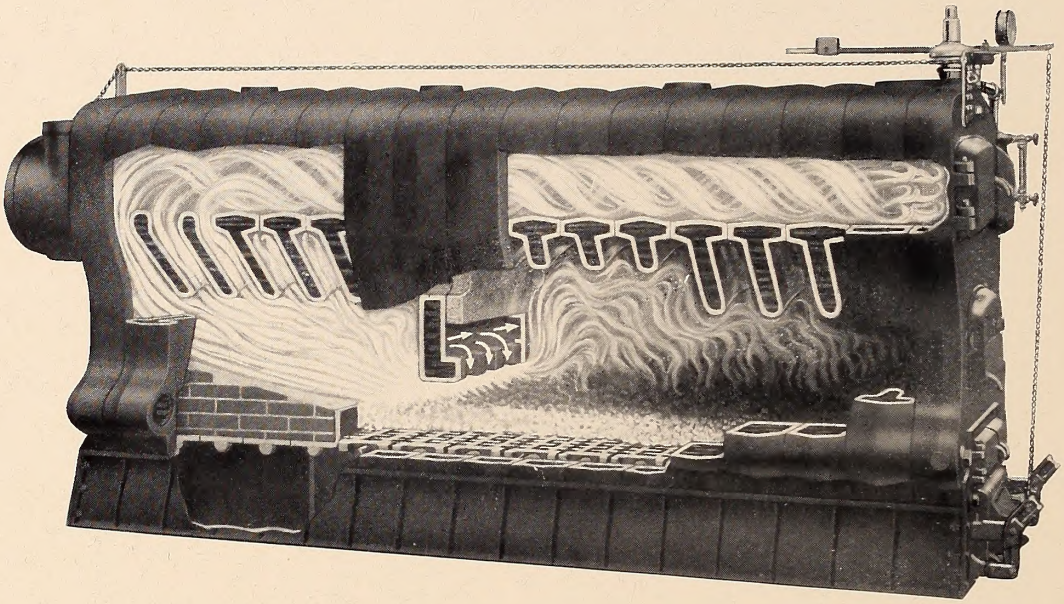

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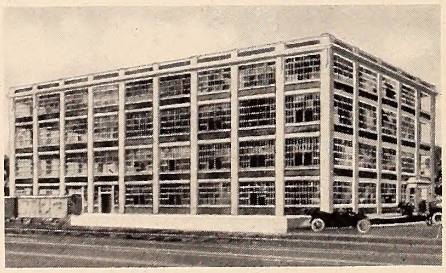

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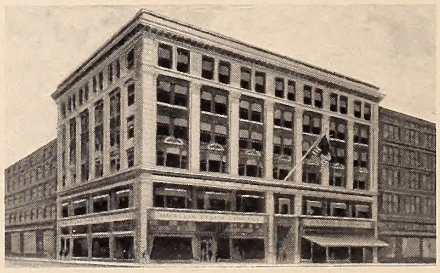

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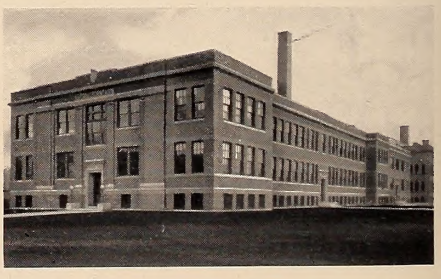

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NEW STUDIO BUILDING (Kresge)	Boston, Mass.	Blackall, Clapp & Whittemore
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PALACE THEATRE	Lawrence, Mass.	Blackall, Clapp & Whittemore
SAXONVILLE SCHOOL	Framingham, Mass.	Lockwood, Greene & Co.
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HENRY L. PIERCE SCHOOL	Boston, Mass.	Replacement
FOREST PARK SCHOOL	Springfield, Mass.	B. Hammet Seabury
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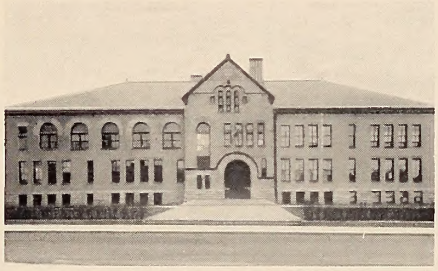

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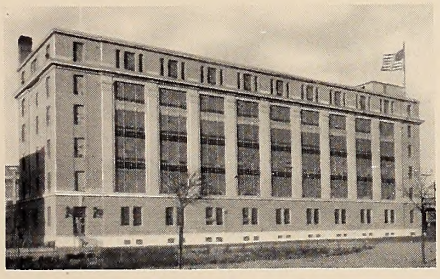

FILENE SERVICE BUILDING, Cambridge, Mass.
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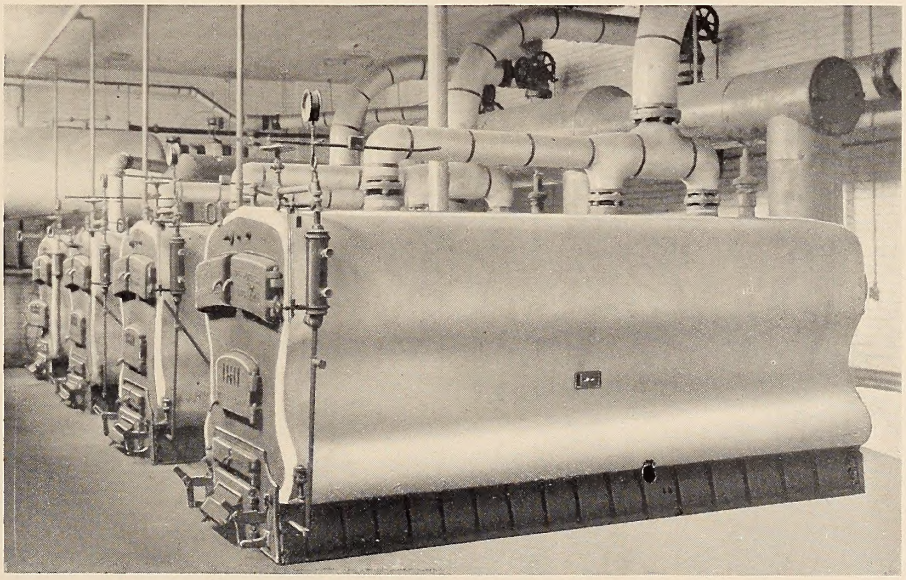

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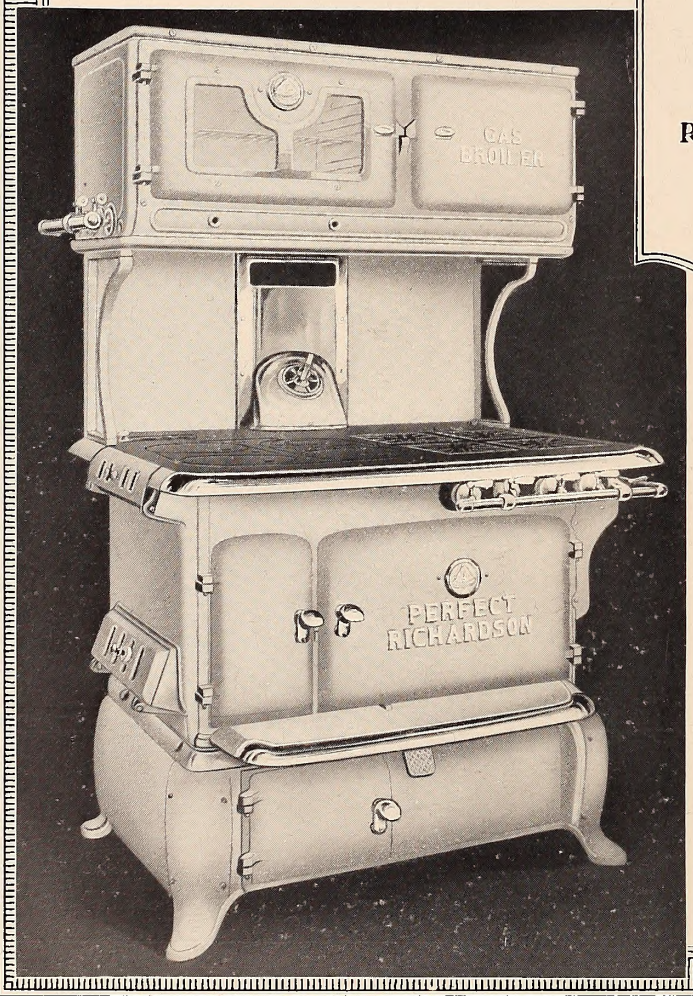

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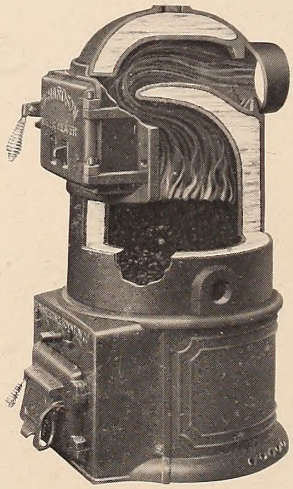

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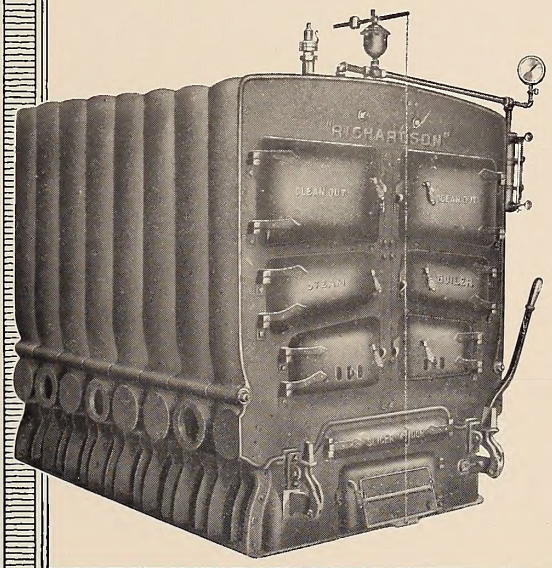

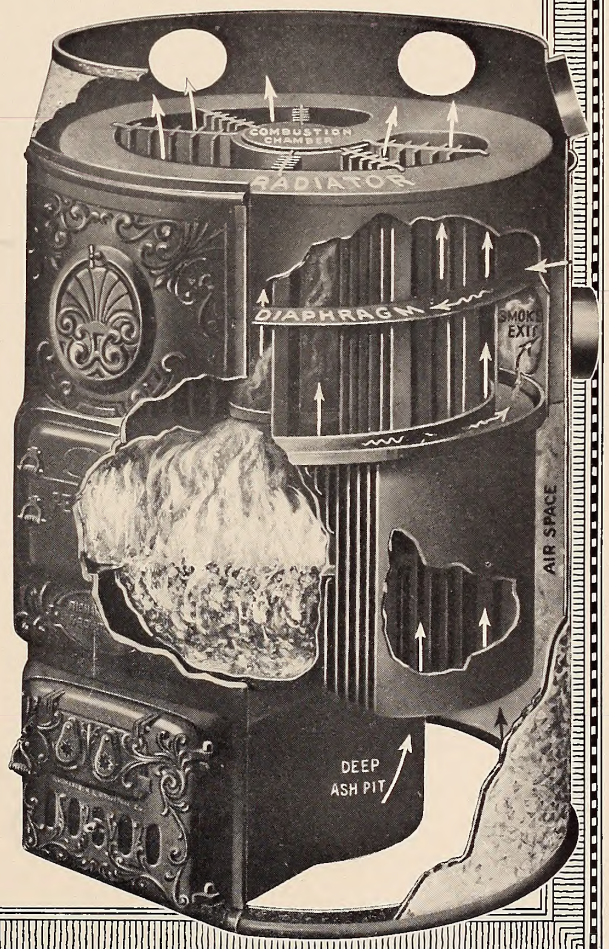

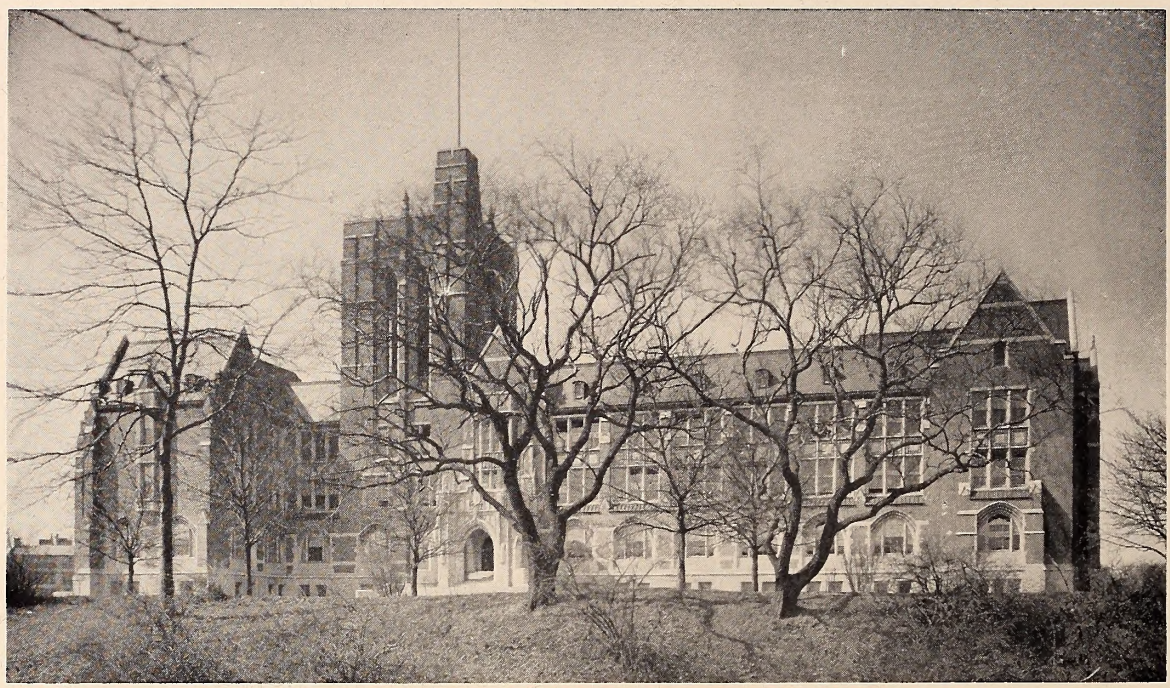

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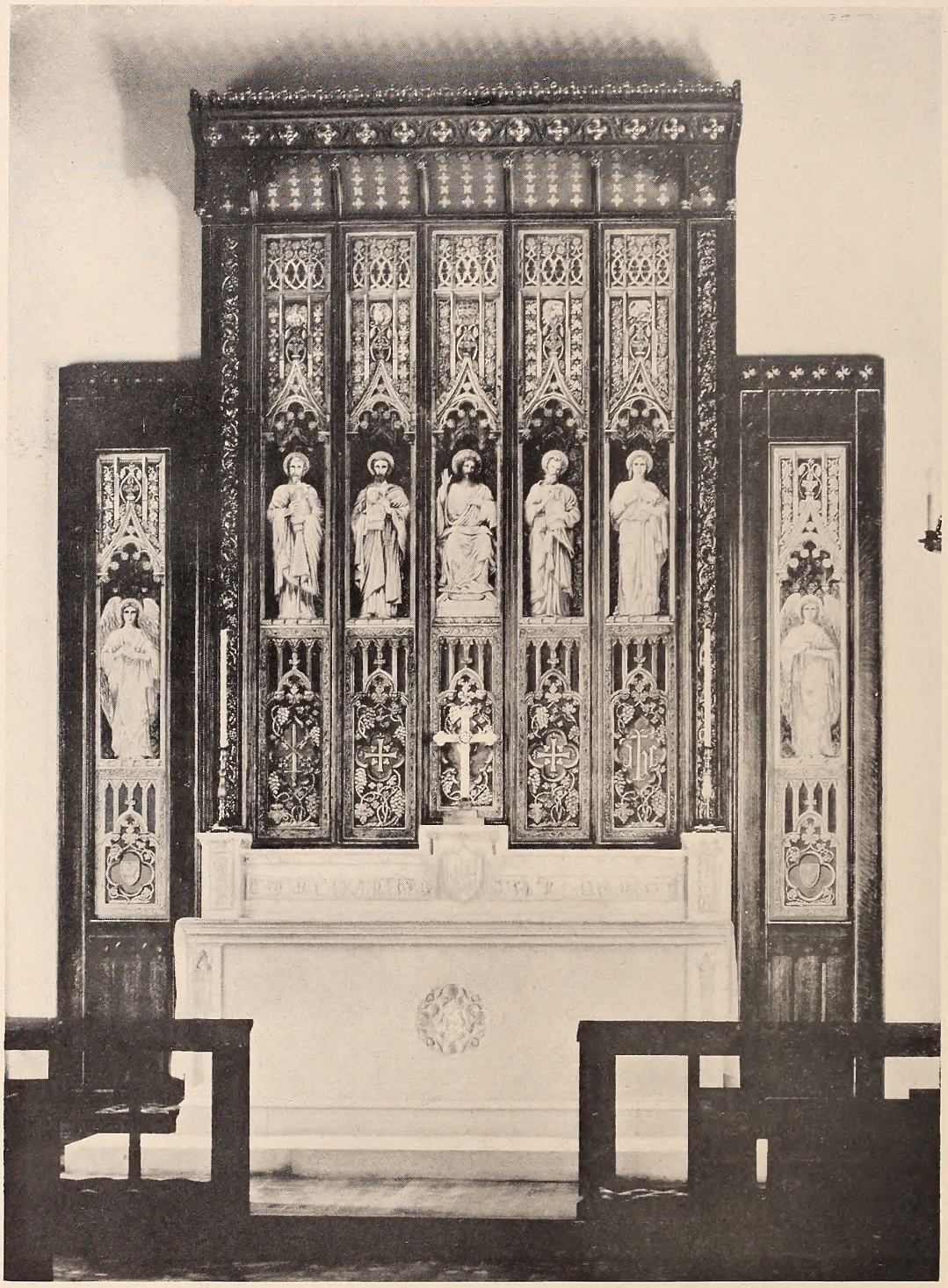

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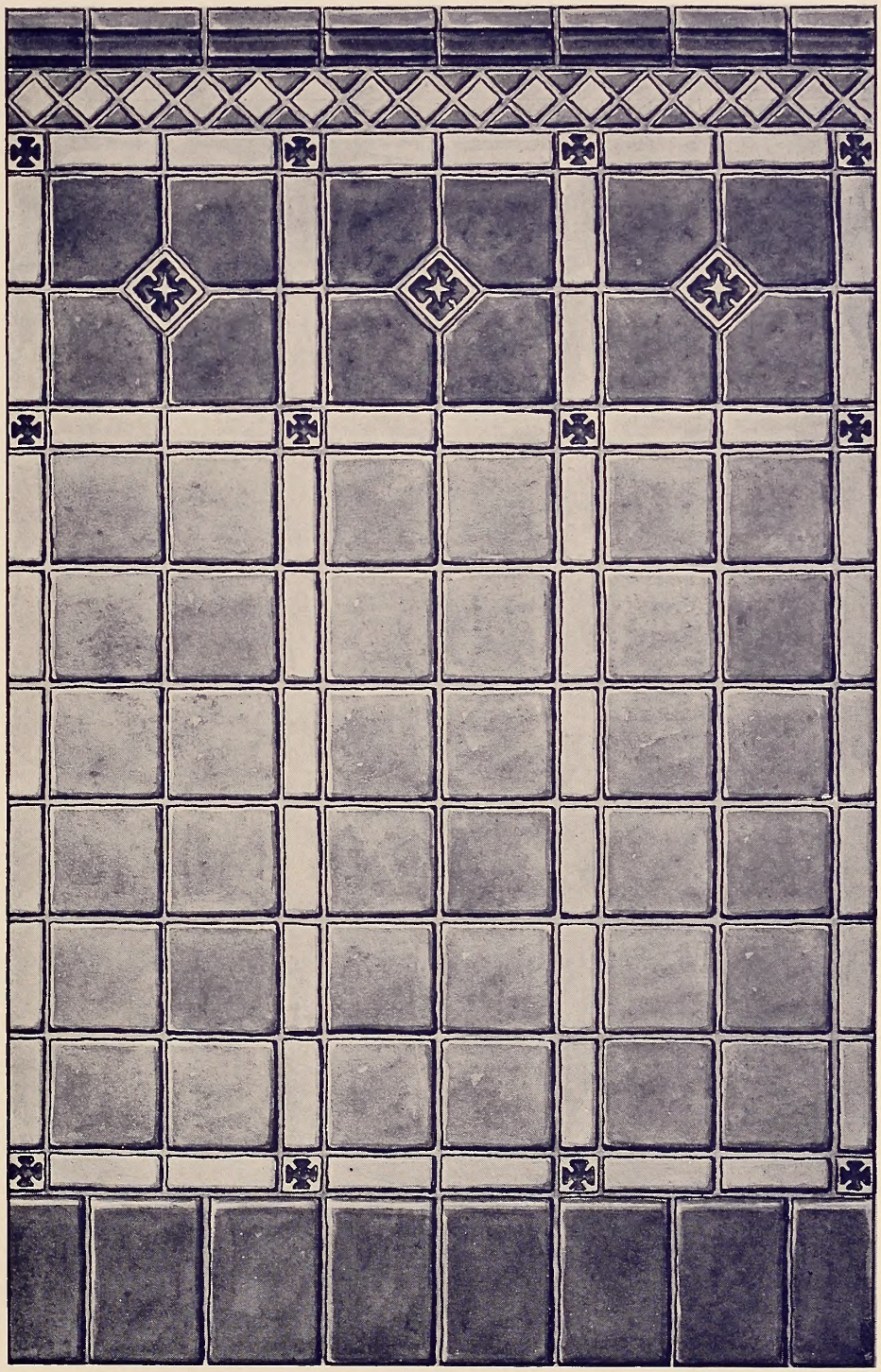

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What is Gas?

IT is said that one reason so little progress has been made in working out a solution for our recurrent fuel troubles is that the public generally lacks a clear understanding of the true nature of our principal fuels. To the average person, coal is merely a black rock that burns. Oil is volatile liquid and city gas something manufactured to take the place of other fuels.

If we would have cheaper fuels, less annoyance from interrupted service, more comfort in the homes and office buildings, we should clear away the mystery surrounding fuels and get down to simple fuel fundamentals.

"It is only its own fault" says one writer on the subject, "that the public for so long has occupied an unhappy position in no man's land where it has been kept busy dodging missiles of the opposing factions."

Fuel wisdom, however, is growing rapidly. The public is beginning to understand that the only thing that burns is gas. They are beginning to realize that the only difference between city gas and coal or other fuel is that in one case the gas is supplied them ready to use and in the other case they make it themselves.

It is strange that today the woman who does her own work finds it more economical to use city gas, which reduces waste to a minimum. Those who are rich and care nothing for the burden of work which they place upon others, manufacture their own gas all the year round, because they do not have to do the work themselves, and yet here conditions are rapidly changing with our recurrent troubles in obtaining coal.

Gas has been in use in Boston for a number of years and we are replacing appliances that use solid fuel by the hundreds, because the waste and labor loss is too great. Even in houses where new equipment was recently placed to use solid fuel, before being put into use we replaced it with gas-burning appliances.

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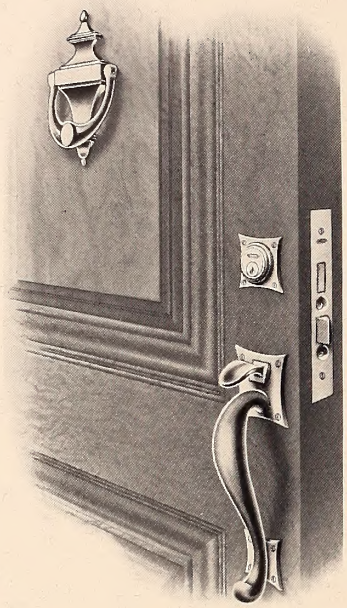

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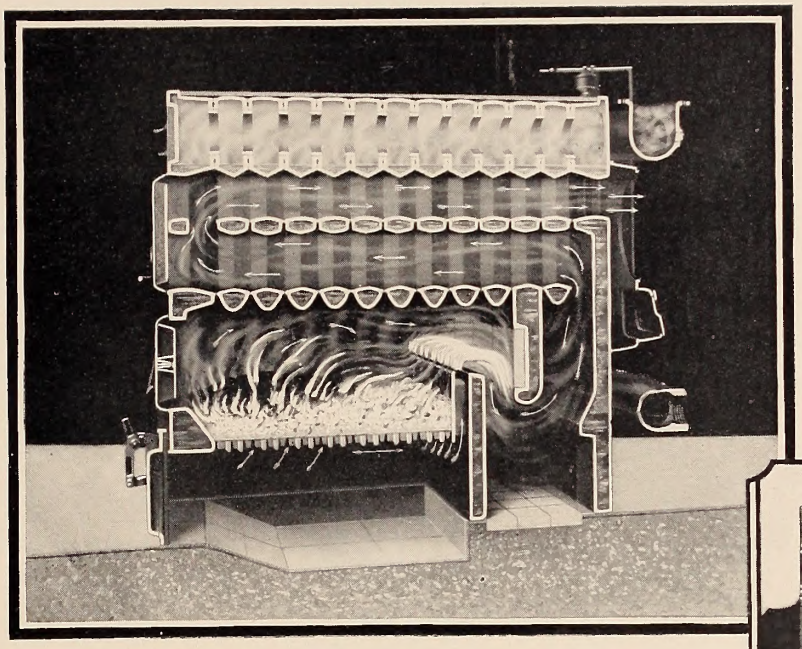

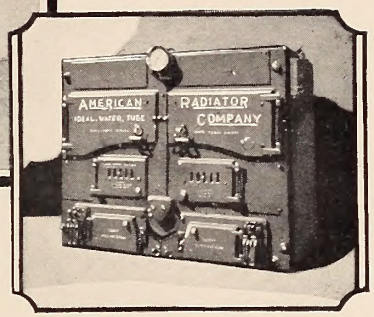

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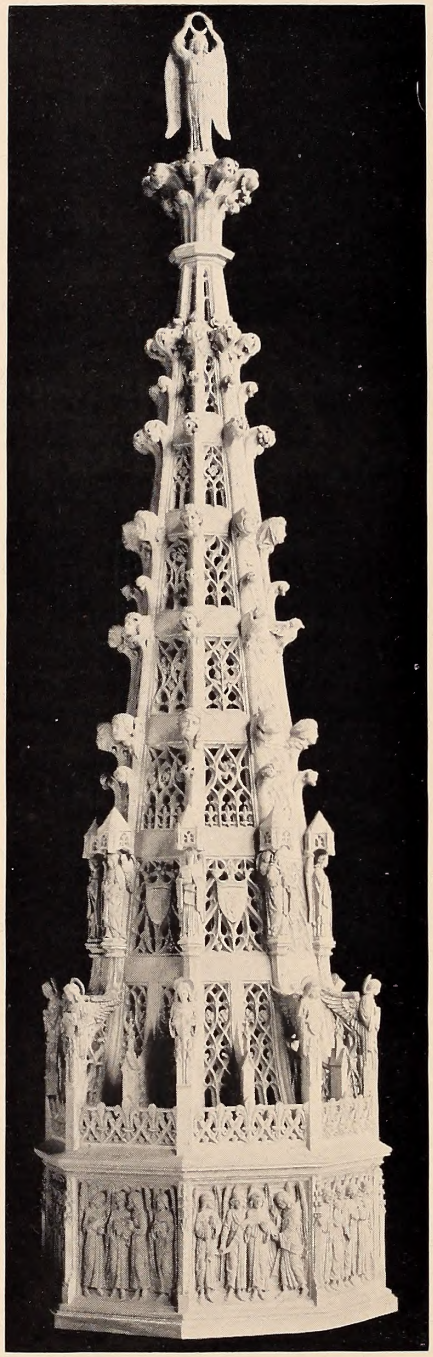

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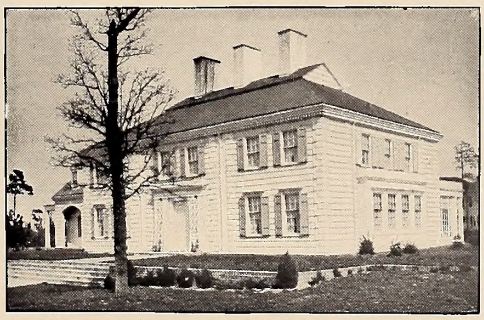

Clark & Arms, Architects, N. Y.
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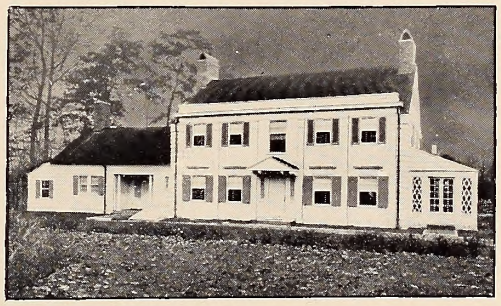

Aymar Embury, Architect, N. Y.
Walls and chimney finished with Cabot's Old Virginia White; roofs with Cabot's Creosote Stains

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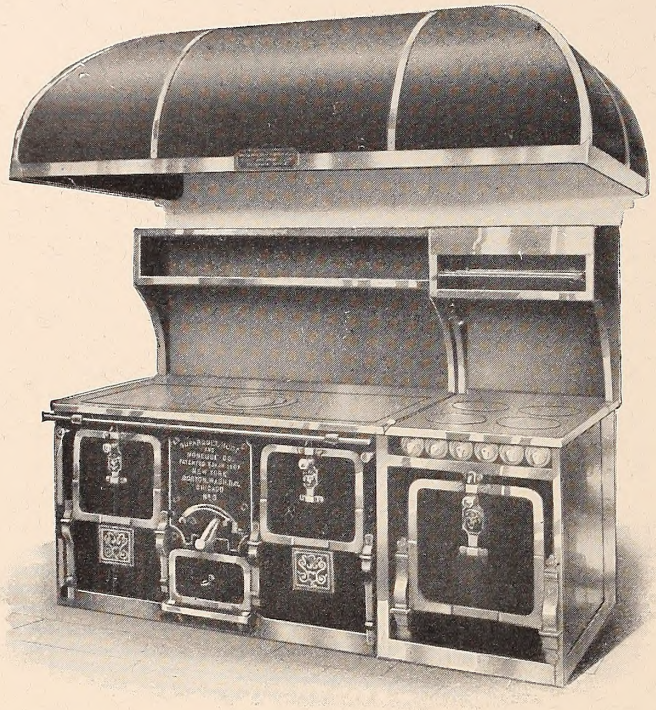

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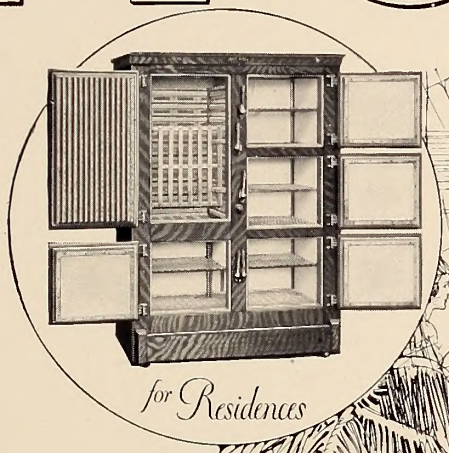

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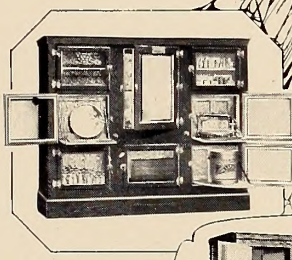

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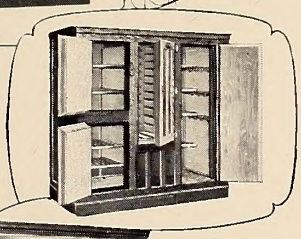

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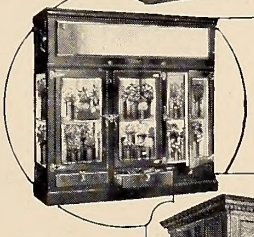

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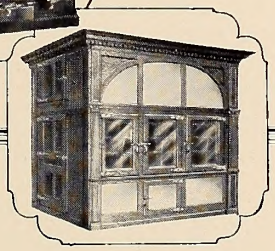

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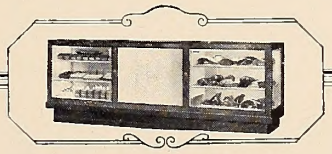

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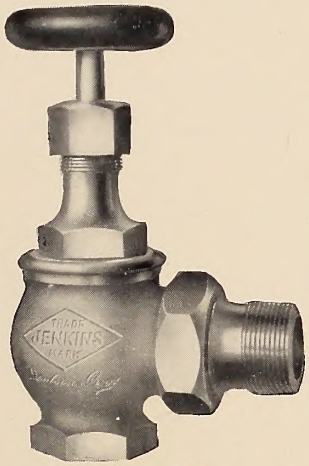

Fig. 168
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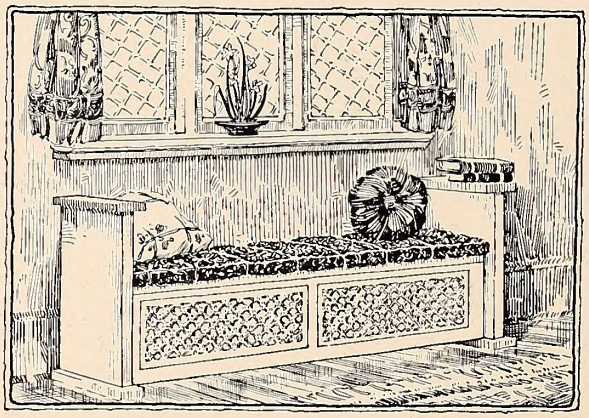

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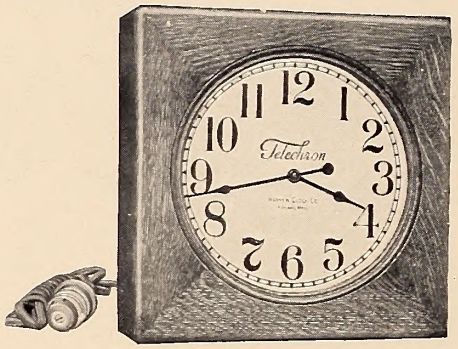

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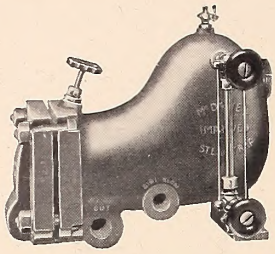

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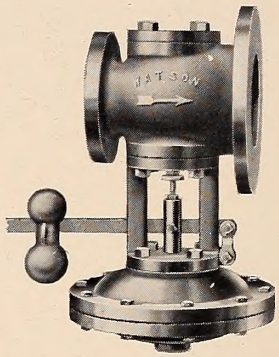

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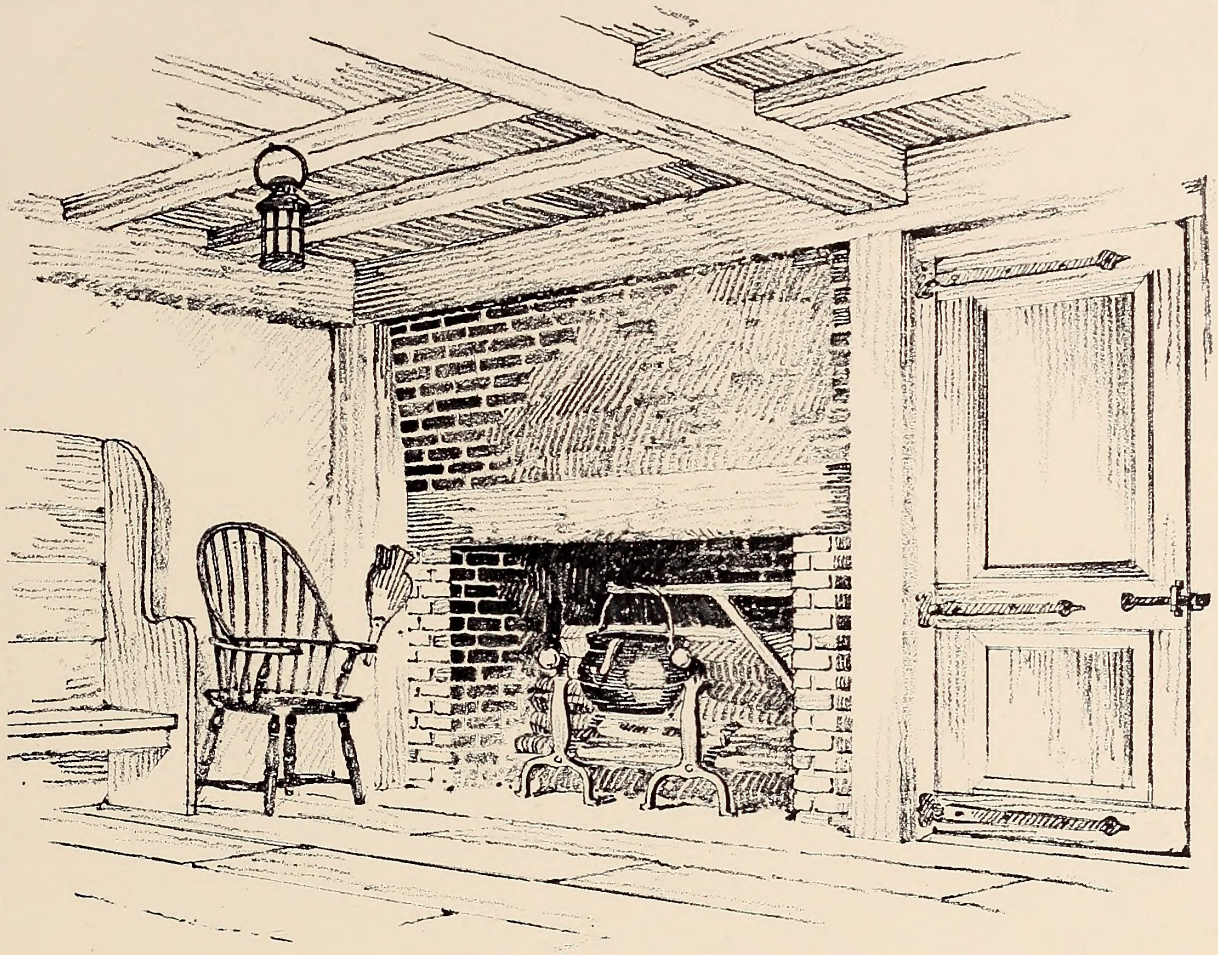

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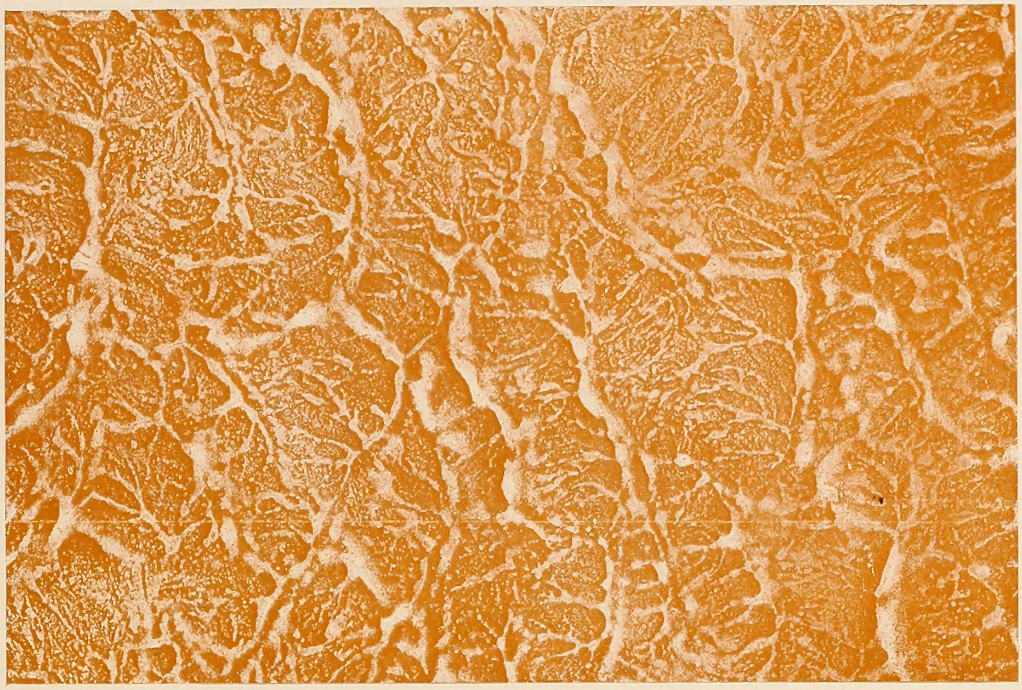

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